



INDEX OF PATENTS

RELATING TO

ELECTRICITY,

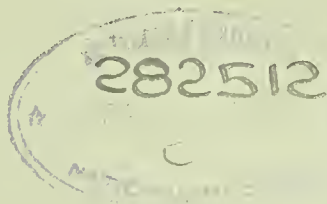
EMBRACING PATENTS ISSUED BY

THE UNITED STATES PATENT OFFICE

FROM JULY 1, 1883, TO JUNE 30, 1884.

APPENDIX No. III.

COMPILED UNDER THE DIRECTION OF THE COMMISSIONER OF PATENTS.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1885.



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ADDENDA.

The following patents were omitted in the former indexes:

No.	NAME.	CLASS.	DATE.
137,574	Smith, H. J.-----	Boat-steering-----	Apr. 8, 1873
231,377	Thierman, J. H.-----	Applications, general.-----	Aug. 17, 1880
235,616	Bell, A. G.-----	Radiophones-----	Dec. 21, 1880
270,418	Goodrich, P. F.-----	Applications, tools and machines-----	Jan. 9, 1883

NOTE.—The following new sub-classes have been added:

82. ANTI-INDUCTION DEVICES:

Apparatus for neutralizing the effects upon telephonic or telegraphic receivers, due to extraneous induction.

81. CONDUCTORS, ANTI-INDUCTIVE:

Conductors specially adapted for neutralizing the effects of extraneous induction in telephonic and telegraphic receivers.

80. CUT-OUTS, ELECTRO-MAGNETIC:

Devices for automatically cutting out translating apparatus on abnormal strength of current.

79. CUT-OUTS, MECHANICAL:

Hand switches for cutting out translating devices.

78. CUT-OUTS, THERMAL:

Devices for automatically cutting out translating apparatus on abnormal temperature.

85. SWITCH-BOARDS:

Apparatus for electrically connecting together two or more outlying circuits.

83. TRANSMISSION OF POWER:

Systems and apparatus for transmitting power to distant points by electricity.

84. VALVE CONTROLLERS:

Electrical devices for regulating and controlling valve movements.

APPENDIX No. III.

PART I.

CONSISTING OF A

SUB-CLASS INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1883, to June 30, 1884, inclusive, giving names of Inventors,
and dates and numbers of Patents in each sub-class in numerical
and chronological order.

CLASSIFIED INDEX

OF

PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1883, TO JUNE 30, 1884.

1. ALARMS.

No.	NAME.	DATE.	No.	NAME.	DATE.
286,581	Blake, J. E. and Hall, C. A.----	Oct. 16, 1883	295,581	Pace, R. G. and Wev, W. J.----	Mar. 25, 1884

2. ALARMS.—BURGLAR.

280,472	Helman, O. A.-----	July 3, 1883	289,665	Lazelle, J. L.-----	Dec. 4, 1883
280,578	Chester, W. F.-----	July 3, 1883	291,310	Dillon, B. F.-----	Jan. 1, 1884
284,808	Brown, E. H.-----	Sept. 11, 1883	292,786	Bogart, A. L.-----	Feb. 5, 1884
285,334	Wiswall, A.-----	Sept. 18, 1883	292,806	Hanson, J. P. and Christensen, J. P.	Feb. 5, 1884
286,566	Wiswall, A.-----	Oct. 9, 1883			
286,888	Wiswall, A.-----	Oct. 16, 1883	292,807	Hanson, J. P. and Christensen, J. P.	Feb. 5, 1884
289,470	Tomney, J.-----	Dec. 4, 1883			
289,471	Tomney, J.-----	Dec. 4, 1883	295,445	Shivler, C. S.-----	Mar. 18, 1884

3. ANNUNCIATORS.

281,931	Shivler, C. S.-----	July 24, 1883	289,552	Palmer, A. C.-----	Dec. 4, 1883
282,016	Van Benschoten, S. and John- son, H. H.	July 24, 1883	291,063	Leitch, A. E.-----	Jan. 1, 1884
			292,115	Herzog, F. B.-----	Jan. 15, 1884
283,073	Capron, J.-----	Aug. 14, 1883	294,212	Farnham, I. H.-----	Feb. 26, 1884
283,590	Flint, E., jr.-----	Aug. 21, 1883	298,080	Gilchrist, J. D.-----	May 6, 1884
284,878	McCormick, D. A.-----	Sept. 11, 1883	298,242	Seiler, P.-----	May 6, 1884
286,529	Buell, C. E.-----	Oct. 9, 1883	299,546	Hovenden, G. E. and E. R.-----	June 3, 1884
286,970	Sperry, E. A.-----	Oct. 16, 1883	300,134	Rousseau, D.-----	June 10, 1884
287,664	Gordon, W. C.-----	Oct. 30, 1883	300,163	Vail, T. N.-----	June 10, 1884
289,233	Corwin, W. S.-----	Nov. 27, 1883	300,607	Hewett, R. J.-----	June 17, 1884
289,411	Happersberger, F.-----	Dec. 4, 1883	300,976	Howard, C. W.-----	June 24, 1884

82. ANTI-INDUCTION DEVICES.

286,577	Bernstein, A.-----	Oct. 16, 1883	297,683	Doolittle, T. B.-----	Apr. 29, 1884
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4. APPLICATIONS.—GENERAL.

280,833	Loomis, B.-----	July 10, 1883	289,649	Hardie, J. W.-----	Dec. 4, 1883
280,882	Tichenor, A. C.-----	July 10, 1883	289,720	Shields, J.-----	Dec. 4, 1883
282,190	Hall, H. D.-----	July 31, 1883	290,926	Rew, H. C.-----	Dec. 25, 1883
282,822	Willard, C. A.-----	Aug. 7, 1883	290,927	Rew, H. C.-----	Dec. 25, 1883
282,964	Delaplaine, J. L., Hendrickson, J. G. and Clamer, F. J.	Aug. 14, 1883	290,930	Rew, H. C.-----	Dec. 25, 1883
			292,317	Joseph, T. B.-----	Jan. 22, 1884
284,862	Lackersteen, M. H.-----	Sept. 11, 1883	293,333	Many, C. M.-----	Feb. 12, 1884
286,208	Létrange, L.-----	Oct. 9, 1883	293,518	Prince, J.-----	Feb. 12, 1884
286,288	Frasch, H.-----	Oct. 9, 1883	294,128	Healy, O.-----	Feb. 26, 1884
287,089	Bendix, J.-----	Oct. 23, 1883	295,686	Sparrow, F. M.-----	Mar. 25, 1884
287,495	Baron, E.-----	Oct. 30, 1883	298,361	Erling, P. R.-----	May 13, 1884
287,617	Brainerd, H. C.-----	Oct. 30, 1883	298,397	Oppenheimer, L. K.-----	May 13, 1884
287,957	Osborne, J. W.-----	Nov. 6, 1883	299,649	Keep, W. F. and W. H.-----	June 3, 1884
289,642	Giles, C. K.-----	Dec. 4, 1883			

5. APPLICATIONS.—TOOLS AND MACHINES.

No.	NAME.	DATE.	No.	NAME.	DATE.
281,224	Goodsell, B. H., Adamson, C. and Hering, C. O.	July 10, 1883	291,925	Morton, E. W.	Jan. 15, 1884
283,058	Arnheim, M.	Aug. 14, 1883	291,948	Small, D. M.	Jan. 15, 1884
285,008	Burke, J. T.	Sept. 18, 1883	292,178	Rider, A. K.	Jan. 22, 1884
286,030	Marcus, S.	Oct. 2, 1883	293,179	King, C. W. and Cliff, A.	Feb. 5, 1884
287,855	Parker, L. C.	Nov. 6, 1883	293,735	Henderson, J. C.	Feb. 19, 1884
287,897	Baldwin, C. W.	Nov. 6, 1883	293,851	De Castro, J. W.	Feb. 19, 1884
288,102	Nickum, G. S.	Nov. 6, 1883	296,148	Delmage, W. A.	Apr. 1, 1884
288,395	Bain, F.	Nov. 13, 1883	296,341	Maxim, H. S.	Apr. 8, 1884
288,677	Stevenson, T. S.	Nov. 20, 1883	296,401	Gillon, L.	Apr. 8, 1884
289,693	Nash, L. H.	Dec. 4, 1883	297,111	Campbell, A.	Apr. 22, 1884
291,288	Brown, A. T.	Jan. 1, 1884	298,030	Schmid, A.	May 6, 1884
291,463	Ball, C. E. and Bradford, C. S., jr.	Jan. 1, 1884	299,572	Oliver, H. W., jr.	June 3, 1884
291,575	Campbell, A.	Jan. 8, 1884	299,745	Cooke, F. C.	June 3, 1884

6. BATTERIES.—GALVANIC.

280,933	Karshner, W. W.	July 10, 1883	291,286	Brewer, H. J.	Jan. 1, 1884
281,262	Gilbert, J. W. and Starr, E. T.	July 17, 1883	291,871	Brewer, H. J.	Jan. 15, 1884
282,634	Hayes, P. S.	Aug. 7, 1883	292,310	Himmer, I. C.	Jan. 22, 1884
282,784	Schlosser, E. F.	Aug. 7, 1883	292,433	Howell, T. J.	Jan. 22, 1884
282,795	Starr, E. T.	Aug. 7, 1883	293,272	Pope, F. L.	Feb. 12, 1884
283,355	Orne, C. P.	Aug. 14, 1883	293,563	Clarke, C. L. and Leigh, J.	Feb. 12, 1884
284,605	Burns, H. A.	Sept. 11, 1883	294,335	Ross, O. C. D.	Feb. 26, 1884
285,066	Peckham, F. H., jr.	Sept. 18, 1883	295,574	McGinnis, W. T.	Mar. 25, 1884
286,809	Haid, A.	Oct. 16, 1883	295,671	Pabst, C.	Mar. 25, 1884
287,641	Delafield, A. F.	Oct. 30, 1883	296,365	Thame, H.	Apr. 8, 1884
287,812	Felton, L. E.	Nov. 6, 1883	296,464	Schroeder, A.	Apr. 8, 1884
288,916	Bergmann, S.	Nov. 20, 1883	298,175	Clarke, C. L.	May 6, 1884
289,795	Anderson, R. C.	Dec. 11, 1883	298,997	Millard, O.	May 20, 1884
290,149	Unger, J. and Eisele, S. O.	Dec. 11, 1883	300,176	Wenzel, W.	June 10, 1884
290,654	Velloni, G. G. L.	Dec. 18, 1883	300,537	Wallace, J. B.	June 17, 1884
291,241	Tobin, J. L.	Jan. 1, 1884	300,666	Vetter, J. C. and Putnam, S. G.	June 17, 1884

72. BATTERIES.—SECONDARY.

281,156	Starr, E. T.	July 10, 1883	292,469	Case, W. E.	Jan. 29, 1884
282,396	Starr, E. T.	July 31, 1883	292,762	Phillippart, G.	Jan. 29, 1884
282,414	Van Depoele, C. J.	July 31, 1883	294,463	Haid, A.	Mar. 4, 1884
283,295	Starr, E. T.	Aug. 14, 1883	294,464	Haid, A.	Mar. 4, 1884
284,342	Tompkins, C. T.	Sept. 4, 1883	294,465	Haid, A.	Mar. 4, 1884
284,343	Tribe, A.	Sept. 4, 1883	295,455	Starr, E. T.	Mar. 18, 1884
284,577	Starr, E. T. and E. E.	Sept. 4, 1883	295,456	Starr, E. T.	Mar. 18, 1884
285,529	Van Depoele, C. J.	Sept. 25, 1883	295,889	Starr, E. T.	Mar. 25, 1884
285,807	Fox, St. G. L.	Oct. 2, 1883	296,164	Haid, A.	Apr. 1, 1884
286,259	Brush, C. F.	Oct. 9, 1883	296,262	Williams, F. T. and Howell, J. C.	Apr. 1, 1884
289,386	Case, W. E.	Dec. 4, 1883	296,331	Gumpel, C. G.	Apr. 8, 1884
290,611	Taylor, W. and King, F.	Dec. 18, 1883	296,849	Lachlan, W.	Apr. 15, 1884
290,941	Starr, E. T.	Dec. 25, 1883	297,457	Shaw, W. A.	Apr. 22, 1884
290,942	Starr, E. T.	Dec. 25, 1883	298,348	Case, W. E.	May 13, 1884
290,943	Starr, E. T.	Dec. 25, 1883	299,177	Stanley, W., jr.	May 27, 1884
291,526	Molera, E. J. and Cebrian, J. C.	Jan. 8, 1884	299,178	Stanley, W., jr.	May 27, 1884
291,850	Knowles, E. R.	Jan. 8, 1884	299,434	Starr, E. T.	May 27, 1884
292,034	Molera, E. J. and Cebrian, J. C.	Jan. 15, 1884	300,052	Davis, A. G.	June 10, 1884
292,142	Smyth, C. A.	Jan. 15, 1884	300,933	Winch, G. L.	June 24, 1884

74. BATTERIES.—SECONDARY.—APPLICATIONS.

281,175	Brush, C. F.	July 10, 1883	290,468	Perkins, C. G.	Dec. 18, 1883
281,176	Brush, C. F.	July 10, 1883	290,470	Perkins, C. G.	Dec. 18, 1883
285,602	Farmer, M. G.	Sept. 25, 1883	290,873	Farmer, M. G.	Dec. 25, 1883
285,714	Weston, E.	Sept. 25, 1883	291,465	Beeman, J. S., Taylor, W. and King, F.	Jan. 1, 1884
288,888	Strondley, W. and Houghton, E. J.	Nov. 20, 1883	299,021	Sellon, R. P.	May 20, 1884
289,320	Weston, E. and Curtis, L. E.	Nov. 27, 1883			

73. BATTERIES.—THERMAL.

289,631	Eaton, A. K.				Dec. 4, 1883
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7. BELLS.

No.	NAME.	DATE.	No.	NAME.	DATE.
284,480	Pope, F. L. -----	Sept. 4, 1883	293,980	Redding, J. -----	Feb. 19, 1884
288,202	Bowen, W. J. -----	Nov. 13, 1883	296,729	Conant, G. P. -----	Apr. 15, 1884
290,495	Than, H. -----	Dec. 18, 1883	300,253	Hazazer, E. W. -----	June 10, 1884
293,571	Gassett, O. -----	Feb. 12, 1884			

8. BOAT-STEERING.

297,647	Tuck, J. H. L. -----	Apr. 29, 1884
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9. CAR-BRAKES.

284,365	Beidler, H. M. -----	Sept. 4, 1883	296,212	Park, H. S. -----	Apr. 1, 1884
289,896	Daft, L. -----	Dec. 11, 1883	296,319	Duvelius, A. L. -----	Apr. 8, 1884
290,689	Kampfe, R. -----	Dec. 25, 1883	296,349	Park, H. S. -----	Apr. 8, 1884
293,993	Withers, J. E. -----	Feb. 19, 1884	296,546	Flad, H. -----	Apr. 8, 1884
296,211	Park, H. S. -----	Apr. 1, 1884	296,549	Flad, H. -----	Apr. 8, 1884

10. CIRCUIT-CLOSERS.

281,202	Phelps, L. J. -----	July 10, 1883	287,618	Brigel, L. A. -----	Oct. 30, 1883
282,246	Wall, F. J. -----	July 31, 1883	293,626	Bunker, A. S. -----	Feb. 19, 1884
283,303	Tirrell, J. P. -----	Aug. 14, 1883	294,404	Pinkham, C. S. -----	Mar. 4, 1884
284,715	Bernstein, A. -----	Sept. 11, 1883	296,812	Blake, S. N. -----	Apr. 15, 1884
286,100	Wiswall, A. -----	Oct. 2, 1883	300,098	McCarty, W. F. M. -----	June 10, 1884

11. CLOCKS.

280,715	Buell, C. E. -----	July 3, 1883	294,131	Himmer, V. -----	Feb. 26, 1884
281,585	Wagner, G. G. -----	July 17, 1883	294,132	Himmer, V. -----	Feb. 26, 1884
284,355	Bailey, H. L. -----	Sept. 4, 1883	294,552	Webb, G. B. -----	Mar. 4, 1884
284,578	Sweet, D. F. -----	Sept. 4, 1883	295,287	Sawyer, W. H. -----	Mar. 18, 1884
285,088	Van Wagenen, H. G. -----	Sept. 18, 1883	295,873	Jungerman, E. -----	Mar. 25, 1884
286,181	Crane, A. S. -----	Oct. 9, 1883	296,256	Wagner, G. G. -----	Apr. 1, 1884
287,015	Gardner, W. F. -----	Oct. 23, 1883	296,653	Waldo, F. -----	Apr. 8, 1884
288,175	Hamblet, J. -----	Nov. 6, 1883	298,205	Himmer, I. C. and Weisgerber, W. F. -----	May 6, 1884
288,496	Schlaefli, J. P. A. -----	Nov. 13, 1883			
288,623	Crane, A. S. -----	Nov. 20, 1883	298,301	Himmer, V. -----	May 6, 1884
288,906	Willson, R. W. -----	Nov. 20, 1883	298,557	Diolot, S. -----	May 13, 1884
289,944	Webb, G. B. -----	Dec. 11, 1883	299,561	Lytle, H. B. and Carty, J. J. -----	June 3, 1884
290,894	Kettell, J. F. -----	Dec. 25, 1883	299,562	Lytle, H. B. and Carty, J. J. -----	June 3, 1884
292,962	Talbot, C. N. -----	Feb. 5, 1884	300,139	Schisgall, S. -----	June 10, 1884
293,613	Herotizky, G. M. -----	Feb. 12, 1884			

13. CONDUCTORS.

280,366	Dunham, T. H. -----	July 3, 1883	283,200	Brissett, H. R. and Howe, J. -----	Aug. 14, 1883
280,474	Herrmann, L. A. F. -----	July 3, 1883	283,433	Stanley, H. D. and Doolittle, G. -----	Aug. 21, 1883
280,518	Rogers, J. W. -----	July 3, 1883	283,760	Daft, L. -----	Aug. 28, 1883
280,521	Sawyer, W. H. -----	July 3, 1883	283,763	Delany, P. B. -----	Aug. 28, 1883
10,349	Waring, R. S. and Hyde, J. B. ----- (Reis.)	July 3, 1883	283,764	Delany, P. B. -----	Aug. 28, 1883
10,350	Waring, R. S. and Hyde, J. B. ----- (Reis.)	July 3, 1883	284,094	Van Hoevenbergh, H. -----	Aug. 28, 1883
10,351	Waring, R. S. ----- (Reis.)	July 3, 1883	284,098	Waring, R. S. -----	Aug. 28, 1883
280,947	Ohl, P. C. -----	July 10, 1883	284,137	McElroy, W. J. -----	Aug. 28, 1883
281,223	Rogers, H. D. -----	July 10, 1883	284,138	McElroy, W. J. -----	Aug. 28, 1883
281,841	Cowles, A. A. -----	July 24, 1883	284,226	Patterson, W. R. -----	Sept. 4, 1883
281,864	Gilpin, J. F. -----	July 24, 1883	284,289	Fleming, J. A. -----	Sept. 4, 1883
281,999	Hyde, J. B. -----	July 24, 1883	284,423	Hollingshead, W. B. -----	Sept. 4, 1883
10,403	Hyde, J. B. ----- (Reis.)	Nov. 6, 1883	284,668	Putnam, T. A. B. -----	Sept. 11, 1883
10,404	Hyde, J. B. ----- (Reis.)	Nov. 6, 1883	284,959	Halkyard, W. -----	Sept. 11, 1883
282,680	Sparling, J. A. -----	Aug. 7, 1883	284,970	Moore, F. -----	Sept. 11, 1883
282,914	Martin, J. F. -----	Aug. 7, 1883	285,327	Weaver, A. S. -----	Sept. 18, 1883
283,044	Turner, D. B. -----	Aug. 14, 1883	285,494	Le Grande, W. W. -----	Sept. 25, 1883
283,140	Pope, H. W. -----	Aug. 14, 1883	285,672	Phillips, H. O. -----	Sept. 25, 1883
			285,673	Phillips, H. O. -----	Sept. 25, 1883
			286,035	Mayall, T. J. -----	Oct. 2, 1883

13. CONDUCTORS.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
286,036	Mayall, T. J	Oct. 2, 1883	291,239	Stanley, H. D	Jan. 1, 1884
286,220	Phillips, H. O	Oct. 9, 1883	291,399	Randall, N	Jan. 1, 1884
286,437	Hirley, J. V	Oct. 9, 1883	291,716	Greives, J	Jan. 8, 1884
286,698	Henley, W. T	Oct. 16, 1883	291,717	Greives, J	Jan. 8, 1884
286,796	Egleston, T	Oct. 16, 1883	291,718	Greives, J	Jan. 8, 1884
286,829	Kohmescher, J. H	Oct. 16, 1883	292,539	Cowles, A. A	Jan. 29, 1884
286,937	Martin, J. F	Oct. 16, 1883	292,694	Shaw, W. A	Jan. 29, 1884
286,946	Martin, J. F	Oct. 16, 1883	292,717	Weston, E	Jan. 29, 1884
286,963	Reed, T. S	Oct. 16, 1883	292,772	Van Hoebenbergh, H	Jan. 29, 1884
287,092	Breunan, J. W. and Rousseau, N	Oct. 23, 1883	292,847	Patterson, W. R	Feb. 5, 1884
287,146	Martin, J. F	Oct. 23, 1883	292,848	Patterson, W. R	Feb. 5, 1884
287,236	Clark, E	Oct. 23, 1883	292,849	Patterson, W. R	Feb. 5, 1884
287,288	Jacob, F	Oct. 23, 1883	293,271	Phillips, W. J. and Kitson, G. L	Feb. 12, 1884
287,346	Van Depoele, C. J	Oct. 23, 1883	293,433	Edison, T. A	Feb. 12, 1884
287,766	McGill, G. W	Oct. 30, 1883	293,532	Smith, L. L	Feb. 12, 1884
287,776	Phillips, H. O	Oct. 30, 1883	293,775	Patterson, W. R	Feb. 19, 1884
288,132	Stanard, R. T	Nov. 6, 1883	294,148	Pope, F. L	Feb. 26, 1884
10,401	Farrell, J (Reis.)	Nov. 6, 1883	294,457	Fottrell, J	Mar. 4, 1884
10,402	Farrell, J (Reis.)	Nov. 6, 1883	295,073	Stoue, R. C	Mar. 11, 1884
288,443	Johnson, L	Nov. 13, 1883	295,207	Stone, R. C	Mar. 18, 1884
288,454	Kruesi, J	Nov. 13, 1883	295,232	Cowles, A. A	Mar. 18, 1884
288,795	Hamon, A. H	Nov. 20, 1883	295,966	Williamson, J. J	Apr. 1, 1884
289,077	Doolittle, G. and Stanley, H. D	Nov. 27, 1883	296,074	Shaw, T	Apr. 1, 1884
289,092	Halkyard, W	Nov. 27, 1883	296,294	Miner, T	Apr. 1, 1884
289,575	Shaw, T	Dec. 4, 1883	297,181	Shelbourne, S. F	Apr. 22, 1884
289,725	Tainter, S	Dec. 4, 1883	297,547	Wright, A. P	Apr. 22, 1884
289,890	Chambers, J. C	Dec. 11, 1883	297,586	Edison, T. A	Apr. 29, 1884
290,057	Hyde, J. B	Dec. 11, 1883	297,626	Page, J. H	Apr. 29, 1884
290,058	Hyde, J. B	Dec. 11, 1883	298,179	Conner, C	May 6, 1884
290,121	Shaw, W. A	Dec. 11, 1883	300,179	Williamson, J. J	June 10, 1884
290,122	Shaw, W. A	Dec. 11, 1883	300,403	Splitdorf, H	June 17, 1884
290,753	Delany, P. B	Dec. 25, 1883	300,410	Tichenor, A. C	June 17, 1884
290,881	Hyde, J. B	Dec. 25, 1883	300,669	Williamson, J. J	June 17, 1884
291,170	Edmunds, H., jr	Jan. 1, 1884	301,031	Weston, E	June 24, 1884

81. CONDUCTORS.—ANTI-INDUCTIVE.

284,425	Huck, C	Sept. 4, 1883	297,176	Shelbourne, S. F	Apr. 22, 1884
284,426	Huck, C	Sept. 4, 1883	297,177	Shelbourne, S. F	Apr. 22, 1884
286,948	Martin, J. F	Oct. 16, 1883	297,178	Shelbourne, S. F	Apr. 22, 1884
286,949	Martin, J. F	Oct. 16, 1883	297,180	Shelbourne, S. F	Apr. 22, 1884
290,769	Gray, G	Dec. 25, 1883	297,184	Shelbourne, S. F	Apr. 22, 1884
290,853	Campbell, H. F	Dec. 25, 1883	297,406	Jamieson, W	Apr. 22, 1884
290,854	Campbell, H. F	Dec. 25, 1883	297,688	Guilleaume, F. C	Apr. 29, 1884
290,971	Campbell, H. F	Dec. 25, 1883	297,855	Sawyer, W. H	Apr. 29, 1884
291,715	Greives, J. and Bleoo, J. H	Jan. 8, 1884	298,751	Harrington, F. S	May 20, 1884
297,175	Shelbourne, S. F	Apr. 22, 1884			

14. CONNECTORS.

281,730	Ricketts, P. C	July 24, 1883	294,851	Childs, W. A. and Shaw F	Mar. 11, 1884
282,249	Westinghouse, G., jr	July 31, 1883	294,928	Stevenson, T. S	Mar. 11, 1884
282,250	Westinghouse, G., jr	July 31, 1883	295,371	Doolittle, G	Mar. 18, 1884
283,276	Pope, H. W	Aug. 14, 1883	295,559	Kitson, G. L	Mar. 25, 1884
284,216	Lytle, H. B	Sept. 4, 1883	296,160	Goodbody, A. G	Apr. 1, 1884
284,915	Somers, G. E	Sept. 11, 1883	296,547	Flad, H	Apr. 8, 1884
290,844	Bowman, C. M	Dec. 25, 1883	297,655	Abernetby, T. R	Apr. 29, 1884
291,211	McIntire, C	Jan. 1, 1884	298,326	Weston, E	May 6, 1884
292,180	Ryder, S	Jan. 22, 1884	299,467	Drake, D. E	May 27, 1884

80. CUT-OUTS.—ELECTRO-MAGNETIC.

289,630	Dyer, J. W	Dec. 4, 1883	293,921	Townsend, H. C. and Bucking-	Feb. 19, 1884
290,732	Bogart, A. L	Dec. 25, 1883		ham, C. L.	
291,299	Connolly, A. A	Jan. 1, 1884	293,943	Buckingham, C. L. and Town-	Feb. 19, 1884
291,483	Baker, W. H	Jan. 8, 1884		send, H. C.	
291,484	Baker, W. H	Jan. 8, 1884	293,944	Buckingham, C. L. and Town-	Feb. 19, 1884
291,648	Van Depoele, C. J	Jan. 8, 1884		send, H. C.	
291,649	Van Depoele, C. J	Jan. 8, 1884	296,125	Buckingham, C. L. and Town-	Apr. 1, 1884
291,652	Van Depoele, C. J	Jan. 8, 1884		send, H. C.	
291,958	Thomas, W. M	Jan. 15, 1884	297,385	Greene, E. M	Apr. 22, 1884
292,796	Dyer, J. W	Feb. 5, 1884	300,532	Thomas, W. M	June 17, 1884

79. CUT-OUTS.—MECHANICAL.

No.	NAME.	DATE.	No.	NAME.	DATE.
284,031	Lothrop, C. H -----	Aug. 28, 1883	291,825	Williams, A. and Gannon, J. M.	Jan. 8, 1884
287,875	Shepard, C. S -----	Nov. 6, 1883			

78. CUT-OUTS.—THERMAL.

283,492	Kinsman, F. E -----	Aug. 21, 1883	292,586	Rhodes, T. H -----	Jan. 29, 1884
284,714	Bernstein, A -----	Sept. 11, 1883	292,713	Weston, E -----	Jan. 29, 1884
287,320	Perkins, C. G -----	Oct. 23, 1883	292,785	Bogart, A. L -----	Feb. 5, 1884
288,682	Van Depoele, C. J -----	Nov. 20, 1883	301,030	Weston, E -----	June 24, 1884

15. DENTAL INSTRUMENTS.

294,059	McElhiney, H. H -----	Feb. 26, 1884	295,652	Kinder, A. H -----	Mar. 25, 1884
294,817	Shaffer, C. H -----	Mar. 11, 1884			

20. ELECTROLYSIS.

282,879	Garrett, D. -----	Aug. 7, 1883	293,886	Jones, J. B -----	Feb. 19, 1884
286,359	Williams, W. H -----	Oct. 9, 1883	294,051	Kessler, J. K -----	Feb. 26, 1884
290,949	Wallace, W. -----	Dec. 25, 1883	296,357	Rogers, A. J -----	Apr. 8, 1884
291,670	Body, M. -----	Jan. 8, 1884	297,669	Brush, C. F -----	Apr. 29, 1884
292,119	Kessler, J. K -----	Jan. 15, 1884	300,035	Walenn, W. H -----	June 10, 1884
292,753	Kessler, J. K -----	Jan. 29, 1884	300,951	Cassel, H. R -----	June 24, 1884

21. ELECTRO MAGNETS.

293,116	Timmis, I. A. and Currie, S. C. C.	Feb. 5, 1884	296,380	Bain, F -----	Apr. 8, 1884
294,669	Pope, F. L -----	Mar. 4, 1884			

22. EXPLODING.

287,221	Brasher, T. M -----	Oct. 23, 1883	294,351	Bartlett, W. A -----	Mar. 4, 1884
289,768	Freund, G -----	Dec. 4, 1883	297,648	Tuck, J. H. L -----	Apr. 29, 1884
289,966	Bouilly, A -----	Dec. 11, 1883			

24. GAS LIGHTING.

280,689	Towan, J. H -----	July 3, 1883	285,682	Rousseau, D -----	Sept. 25, 1883
281,345	Crockett, C. H -----	July 17, 1883	286,481	Parker, T. H -----	Oct. 9, 1883
281,471	Drysdale, W. A -----	July 17, 1883	290,441	Lüngen, A -----	Dec. 18, 1883
282,043	Bogart, A. L -----	July 31, 1883	292,374	Smith, A. T -----	Jan. 22, 1884
282,227	Richter, P. -----	July 31, 1883	293,330	Jenkins, E. H -----	Feb. 12, 1884
282,816	White, L. S -----	Aug. 7, 1883	295,059	Shute, E. L -----	Mar. 11, 1884
282,890	Hinds, C. H -----	Aug. 7, 1883	297,879	Van Hoevenbergh, H -----	Apr. 29, 1884
284,516	Van Hoevenbergh, H -----	Sept. 4, 1883	298,531	White, L. S -----	May 13, 1884
284,784	Warren, H. J. and Packard, H. F.	Sept. 11, 1883			

16. HEATERS.

287,330	Hughes, C. T -----	Oct. 23, 1883	287,758	Dyer, R. N. and Seely, H. W.	Oct. 30, 1883
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25. INCRUSTATION.

285,615	Hannay, J. B -----				Sept. 25, 1883
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26. INDICATORS.

No.	NAME.	DATE.	No.	NAME.	DATE.
284,114	Blodgett, A. D., Read, R. M. and Tirrell, J. P.	Aug. 28, 1883	292,714	Weston, E.	Jan. 29, 1884
284,382	Clarke, C. L.	Sept. 4, 1883	294,195	Carley, H. and McKenna, T.	Feb. 26, 1884
286,722	Martin, M.	Oct. 16, 1883	298,906	Spengler, C. G.	May 20, 1884
287,654	Freeman, W. P.	Oct. 30, 1883	299,011	Redding, J.	May 20, 1884
288,402	Borodoulin, N.	Nov. 13, 1883	299,552	Johnson, W. S.	June 3, 1884
290,101	Page, H. W. and Carley, H.	Dec. 11, 1883	300,202	Boulier, A.	June 10, 1884

27. INDUCTION-COILS.

281,097	McGinnis, W. T.	July 10, 1883	297,924	Gaulard, L. and Gibbs, J. D.	Apr. 29, 1884
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28. INSULATORS.

281,452	Chapman, T. L.	July 17, 1883	296,485	Tringham, J. W.	Apr. 8, 1884
286,681	Bowen, W. J.	Oct. 16, 1883	296,558	Haines, D. S. and Lake, S. D.	Apr. 8, 1884
286,801	Fiske, B. A. and Mott, S. D.	Oct. 16, 1883	296,688	Haines, D. S. and Lake, S. D.	Apr. 8, 1884
287,830	Hinsdale, C. C.	Nov. 6, 1883	296,881	Seely, J. A.	Apr. 15, 1884
288,360	Oakman, S.	Nov. 13, 1883	297,101	Baldwin, L. C. and Thurston, J. C.	Apr. 22, 1884
289,449	Rousseau, N.	Dec. 4, 1883	297,677	Cottrell, H.	Apr. 29, 1884
290,922	Pope, F. L.	Dec. 25, 1883	297,699	Klein, J. M.	Apr. 29, 1884
293,242	Hale, A. W.	Feb. 12, 1884	298,072	Dorsett, D. H.	May 6, 1884
293,901	McGrory, T.	Feb. 19, 1884	298,593	Lewis, J. S.	May 13, 1884
294,384	Hale, A. W.	Mar. 4, 1884	298,594	Lewis, J. S.	May 13, 1884
294,563	Beach, W. W.	Mar. 4, 1884	298,753	Hinsdale, C. C.	May 20, 1884

29. KEYS.

281,362	Hart, L. H.	July 17, 1883	293,105	Spurgeon, S. J.	Feb. 5, 1884
281,603	Bartlett, C.	July 17, 1883	293,979	Plumb, C.	Feb. 19, 1884
284,508	Spurgeon, S. J.	Sept. 4, 1883	294,259	Neifing, J.	Feb. 26, 1884
288,609	Anderson, H.	Nov. 20, 1883	297,819	Lewis, C. W.	Apr. 29, 1884

30. LIGHTNING-ARRESTERS.

280,916	Drake, C. C.	July 10, 1883	289,629	Dyer, J. W.	Dec. 4, 1883
281,723	Patterson, W. R.	July 24, 1883	295,267	McDaniel, C. W.	Mar. 18, 1884
282,921	Plush, S. M.	Aug. 7, 1883	296,407	Griffin, J.	Apr. 8, 1884
287,647	Dyer, J. W.	Oct. 30, 1883			

31. LIGHTNING-RODS.

282,449	Dodge, T. H.	July 31, 1883	289,076	Dodge, T. H.	Nov. 27, 1883
282,562	Patee, T. H.	Aug. 7, 1883	290,558	Finn, J. L.	Dec. 18, 1883
283,166	Thomas, H. C.	Aug. 14, 1883	293,612	Woolley, L. G.	Feb. 12, 1884
284,082	Spang, H. W.	Aug. 28, 1883	297,290	Patee, T. H.	Apr. 22, 1884
286,086	Spang, H. W.	Oct. 2, 1883	297,291	Patee, T. H.	Apr. 22, 1884
287,286	Hewitt, W.	Oct. 23, 1883	298,357	Dodge, T. H.	May 13, 1884
287,929	Hewitt, W.	Nov. 6, 1883			

17. LIGHTS.—ARC.

280,426	Wheeler, W.	July 3, 1883	283,042	Thomas, W. M.	Aug. 14, 1883
280,677	Senour, F. L.	July 3, 1883	283,168	Thomson, E.	Aug. 14, 1883
280,709	Bain, F.	July 3, 1883	283,186	Bain, F.	Aug. 14, 1883
280,763	Rabl, F.	July 3, 1883	283,437	Thomson, E.	Aug. 21, 1883
281,048	Frasch, H.	July 10, 1883	283,482	Haskins, C. D.	Aug. 21, 1883
281,229	Ball, C. M.	July 17, 1883	283,629	Maxim, H. S.	Aug. 21, 1883
281,285	Moffitt, J. A.	July 17, 1883	283,662	Riehter, C.	Aug. 21, 1883
281,698	Keith, N. S.	July 24, 1883	284,497	Sheehy, R. J.	Sept. 4, 1883
281,800	Sheehy, R. J.	July 24, 1883	284,939	Bain, F.	Sept. 11, 1883
281,891	Lea, J.	July 24, 1883	285,107	Bucker, R.	Sept. 18, 1883
282,461	Knowles, E. R.	July 31, 1883	285,445	Tibbitts, J. B.	Sept. 25, 1883

17. LIGHTS-ARC.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
285,451	Weston, E.-----	Sept. 25, 1883	294,294	Waterhouse, A. G.-----	Feb. 26, 1884
285,715	Weston, E.-----	Sept. 25, 1883	294,455	Earle, H. A. and Golstein, E.-----	Mar. 4, 1884
286,093	Van Depoele, C. J.-----	Oct. 2, 1883	294,532	Van Depoele, C. J.-----	Mar. 4, 1884
286,094	Van Depoele, C. J.-----	Oct. 2, 1883	294,533	Van Depoele, C. J.-----	Mar. 4, 1884
286,144	Moffatt, R. R.-----	Oct. 2, 1883	295,058	Sheehy, R. J.-----	Mar. 11, 1884
286,925	Hauss, D. J., McNamara, T. E. and Zerbe, J. S.-----	Oct. 16, 1883	295,367	Dennis, T. L.-----	Mar. 18, 1884
286,953	Moses, O. A.-----	Oct. 16, 1883	295,664	Morava, W.-----	Mar. 25, 1884
287,067	Tibbits, J. B.-----	Oct. 23, 1883	295,836	Thomson, E.-----	Mar. 25, 1884
287,344	Van Depoele, C. J.-----	Oct. 23, 1883	297,022	Skinner, J. J.-----	Apr. 15, 1884
288,157	Baxter, W., jr.-----	Nov. 6, 1883	297,194	Thomson, E.-----	Apr. 22, 1884
288,346	Knowles, E. R.-----	Nov. 13, 1883	297,195	Thomson, E.-----	Apr. 22, 1884
288,826	McConnell, J. T.-----	Nov. 20, 1883	297,196	Thomson, E.-----	Apr. 22, 1884
288,831	McTighe, T. J. and McConnell, J. T.-----	Nov. 20, 1883	297,197	Thomson, E.-----	Apr. 22, 1884
289,580	Thomson, E.-----	Dec. 4, 1883	297,198	Thomson, E.-----	Apr. 22, 1884
289,823	Freeman, W. P.-----	Dec. 11, 1883	297,199	Thomson, E.-----	Apr. 22, 1884
290,150	Unger, J. and Eisele, S. O.-----	Dec. 11, 1883	297,200	Thomson, E.-----	Apr. 22, 1884
290,292	Van Hoevenbergh, H.-----	Dec. 18, 1883	297,201	Thomson, E.-----	Apr. 22, 1884
290,836	Beckwith, W. C.-----	Dec. 25, 1883	297,580	Edison, T. A.-----	Apr. 29, 1884
291,553	Van Depoele, C. J.-----	Jan. 8, 1884	297,820	Loder, J. H.-----	Apr. 29, 1884
291,651	Van Depoele, C. J.-----	Jan. 8, 1884	297,833	Nungesser, P. P.-----	Apr. 29, 1884
291,653	Van Depoele, C. J.-----	Jan. 8, 1884	299,025	Short, S. H.-----	May 20, 1884
292,113	Hayes, C. H.-----	Jan. 15, 1884	299,397	Jones, E. and A. E.-----	May 27, 1884
292,293	Fitch, F. K.-----	Jan. 22, 1884	299,600	Turner, T. G.-----	June 3, 1884
292,840	Moses, O. A.-----	Feb. 5, 1884	300,095	Lynn, M. N.-----	June 10, 1884
293,076	Piette, L. and Krizik, F.-----	Feb. 5, 1884	300,433	Bain, F.-----	June 17, 1884
293,495	Moses, O. A.-----	Feb. 12, 1884	300,489	Lever, C.-----	June 17, 1884
294,027	Freeman, W. P.-----	Feb. 26, 1884	300,676	Bain, F.-----	June 17, 1884
294,042	Hochhausen, W.-----	Feb. 26, 1884	300,999	Newton, F. M.-----	June 24, 1884
			301,076	Weston, E.-----	June 24, 1884

18. LIGHTS.—INCANDESCENT.

280,340	Bernstein, A.-----	July 3, 1883	289,456	Sheehy, R. J.-----	Dec. 4, 1883
280,341	Bernstein, A.-----	July 3, 1883	289,590	White, N. S.-----	Dec. 4, 1883
282,030	Adams, I., jr.-----	July 31, 1883	290,467	Perkins, C. G.-----	Dec. 18, 1883
282,460	Knowles, E. R.-----	July 31, 1883	290,469	Perkins, C. G.-----	Dec. 18, 1883
282,472	Swan, A.-----	July 31, 1883	291,171	Edmunds, H., jr.-----	Jan. 1, 1884
282,521	Holtzer, C. W.-----	Aug. 7, 1883	291,464	Beeman, J. S.-----	Jan. 1, 1884
282,534	Knowles, E. R. and Idell, F. E.-----	Aug. 7, 1883	291,867	Blamires, T. H.-----	Jan. 15, 1884
282,861	D'Humy, P. R. de F.-----	Aug. 7, 1883	292,324	Knowles, E. R. and Idell, F. E.-----	Jan. 22, 1884
283,270	Mott, S. D.-----	Aug. 14, 1883	292,403	Beeman, J. S.-----	Jan. 22, 1884
284,409	Gatehouse, T. E.-----	Sept. 4, 1883	292,447	Swan, A.-----	Jan. 22, 1884
285,784	Bartlett, G. P.-----	Oct. 2, 1883	293,256	Langueureau, J.-----	Feb. 12, 1884
286,350	Vail, J. H.-----	Oct. 9, 1883	293,434	Edison, T. A.-----	Feb. 12, 1884
286,916	Fitz Gerald, D. G.-----	Oct. 16, 1883	294,044	Hochhausen, W.-----	Feb. 26, 1884
287,313	Perkins, C. G.-----	Oct. 23, 1883	295,087	Welsh, A.-----	Mar. 11, 1884
287,314	Perkins, C. G.-----	Oct. 23, 1883	295,088	Welsh, A.-----	Mar. 11, 1884
287,319	Perkins, C. G.-----	Oct. 23, 1883	297,377	Gatehouse, T. E.-----	Apr. 22, 1884
287,323	Perkins, C. G.-----	Oct. 23, 1883	297,585	Edison, T. A.-----	Apr. 29, 1884
287,518	Edison, T. A.-----	Oct. 30, 1883	298,142	Weston, E.-----	May 6, 1884
287,519	Edison, T. A.-----	Oct. 30, 1883	298,143	Weston, E.-----	May 6, 1884
287,520	Edison, T. A.-----	Oct. 30, 1883	298,144	Weston, E.-----	May 6, 1884
288,217	Edmunds, H., jr.-----	Nov. 13, 1883	298,325	Weston, E.-----	May 6, 1884
288,218	Edmunds, H., jr.-----	Nov. 13, 1883	299,708	Welsh, A.-----	June 3, 1884
288,971	Benson, G. T.-----	Nov. 27, 1883	299,885	Welsh, A.-----	June 3, 1884

19. LIGHTS.—SYSTEMS AND APPLIANCES.

230,727	Edison, T. A.-----	July 3, 1883	282,884	Guest, J. H.-----	Aug. 7, 1883
230,850	Orton, B. F.-----	July 10, 1883	283,544	Weston, E.-----	Aug. 21, 1883
231,363	Heap, D. P.-----	July 17, 1883	283,545	Weston, E.-----	Aug. 21, 1883
231,412	Starr, E. T. and E. E.-----	July 17, 1883	283,549	Weston, E.-----	Aug. 21, 1883
231,576	Stieringer, L.-----	July 17, 1883	283,748	Bernstein, A.-----	Aug. 28, 1883
231,799	Sheehy, R. J.-----	July 24, 1883	283,983	Edison, T. A.-----	Aug. 28, 1883
231,937	Spang, H. W.-----	July 24, 1883	283,984	Edison, T. A.-----	Aug. 28, 1883
232,157	Burton, G. D.-----	July 31, 1883	283,985	Edison, T. A.-----	Aug. 28, 1883
232,158	Burton, G. D.-----	July 31, 1883	283,986	Edison, T. A.-----	Aug. 28, 1883
232,317	Hinds, C. H.-----	July 31, 1883	284,171	Boulton, W. H.-----	Sept. 4, 1883
232,318	Hinds, C. H.-----	July 31, 1883	284,247	Sheehy, R. J.-----	Sept. 4, 1883

19. LIGHTS.—SYSTEMS AND APPLIANCES.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
284,420	Hedges, K. W	Sept. 4, 1883	293,553	Bergmann, S	Feb. 12, 1884
284,505	Spang, H. W	Sept. 4, 1883	293,879	Holzer, W	Feb. 19, 1884
284,779	Van Depoele, C. J	Sept. 11, 1883	294,045	Hochhausen, W	Feb. 26, 1884
284,805	Brewtnall, A. W	Sept. 11, 1883	294,412	Stanley, W., jr	Mar. 4, 1884
285,859	Van Depoele, C. J	Oct. 2, 1883	294,697	Stieringer, L	Mar. 4, 1884
286,158	Tupper, J. A	Oct. 2, 1883	295,398	Holzer, W	Mar. 18, 1884
286,397	Devlin, J. A	Oct. 9, 1883	296,355	Ritchie, J	Apr. 8, 1884
287,040	McCoy, J. A	Oct. 23, 1883	296,375	Adams, J. S. and F. U	Apr. 8, 1884
287,315	Perkins, C. G	Oct. 23, 1883	297,072	Durbrow, G. W	Apr. 15, 1884
287,316	Perkins, C. G	Oct. 23, 1883	297,269	Klein, P. H., jr	Apr. 22, 1884
287,317	Perkins, C. G	Oct. 23, 1883	297,331	Adams, J. S	Apr. 22, 1884
287,318	Perkins, C. G	Oct. 23, 1883	297,332	Adams, J. S	Apr. 22, 1884
287,321	Perkins, C. G	Oct. 23, 1883	297,333	Adams, J. S	Apr. 22, 1884
287,322	Perkins, C. G	Oct. 23, 1883	297,334	Adams, J. S	Apr. 22, 1884
287,347	Van Depoele, C. J	Oct. 23, 1883	297,335	Adams, J. S	Apr. 22, 1884
287,515	Edison, T. A	Oct. 30, 1883	297,336	Adams, J. S	Apr. 22, 1884
287,517	Edison, T. A	Oct. 30, 1883	297,337	Adams, J. S	Apr. 22, 1884
287,522	Edison, T. A	Oct. 30, 1883	297,338	Adams, J. S	Apr. 22, 1884
287,523	Edison, T. A	Oct. 30, 1883	297,433	Neveux, C. G. E	Apr. 22, 1884
287,525	Edison, T. A. and Clarke, C. L	Oct. 30, 1883	297,581	Edison, T. A	Apr. 29, 1884
287,881	Smith, C. D. F	Nov. 6, 1883	297,928	Goebel, C. H	Apr. 29, 1884
289,199	Weston, E	Nov. 27, 1883	298,141	Weston, E	May 6, 1884
289,327	Weston, E	Nov. 27, 1883	298,327	Weston, E	May 6, 1884
289,425	Levison, W. G	Dec. 4, 1883	298,658	Bergmann, S	May 13, 1884
289,837	Holzer, W	Dec. 11, 1883	298,679	Edison, T. A	May 13, 1884
289,838	Holzer, W	Dec. 11, 1883	298,692	Hoag, G. M	May 13, 1884
290,152	Vance, S. B. H. and Hinds, C. H	Dec. 11, 1883	299,277	Sheridan, H. B	May 27, 1884
290,406	Edmunds, H., jr	Dec. 18, 1883	300,068	Gravier, A. I	June 10, 1884
290,407	Edmunds, H., jr	Dec. 18, 1883	300,155	Starr, E. T	June 10, 1884
290,925	Rew, H. C	Dec. 25, 1883	300,523	Starr, E. T	June 17, 1884
291,731	Hinds, C. H	Jan. 8, 1884	300,524	Starr, E. T	June 17, 1884
292,716	Weston, E	Jan. 29, 1884	300,525	Starr, E. T	June 17, 1884
292,718	Weston, E	Jan. 29, 1884	301,023	Weston, E	June 24, 1884
292,720	Weston, E	Jan. 29, 1884	301,024	Weston, E	June 24, 1884
292,761	Olmsted, J	Jan. 29, 1884	301,026	Weston, E	June 24, 1884
293,318	Giles, J. E	Feb. 12, 1884	301,029	Weston, E	June 24, 1884
293,552	Bergmann, S	Feb. 12, 1884			

75. LOCOMOTION.

281,672	Crocker, F. B., Curtis, C. G. and Wheeler, S. S.	July 24, 1883	288,356	Molera, E. J	Nov. 13, 1883
281,859	Fox, E	July 24, 1883	288,513	Thomas, W. M	Nov. 13, 1883
282,165	Cheever, C. A	July 30, 1883	289,895	Daft, L	Dec. 11, 1883
282,319	Holbrook, Z. S.	July 31, 1883	289,897	Daft, L	Dec. 11, 1883
283,759	Daft, L	Aug. 28, 1883	292,529	Ayrton, W. E. and Perry, J	Jan. 29, 1884
283,761	Daft, L	Aug. 28, 1883	294,618	Henderson, J. C	Mar. 4, 1884
283,912	McCarty, R. A. and Johuson, C. M.	Aug. 28, 1883	295,094	Ayrton, W. E. and Perry, J	Mar. 11, 1884
285,358	Finney, J. R	Sept. 18, 1883	295,473	Bacon, M	Mar. 18, 1884
285,858	Van Depoele, C. J	Oct. 2, 1883	295,614	Boothby, J. W	Mar. 25, 1884
286,571	Allaire, C. B. and Johnson, C. M.	Oct. 16, 1883	297,306	Smith, M. H	Apr. 22, 1884
			300,828	Adams, A. W	June 24, 1884

32. MAGNETIC-LOCKS.

287,775	Peirce, W. E	Oct. 30, 1883	297,623	Newbury, H. F	Apr. 29, 1884
294,842	Beile, C	Mar. 11, 1884	297,751	Bunnell, J. H	Apr. 29, 1884
296,096	Woehrl, A. C	Apr. 15, 1884	300,334	Wüest, C	June 10, 1884
296,866	Newbury, H. F	Apr. 15, 1884			

33. MAGNETO-ELECTRIC.

280,439	Ball, R. E	July 3, 1883	281,353	Edison, T. A	July 17, 1883
280,708	Bain, F	July 3, 1883	281,416	Thomson, E	July 17, 1883
281,049	Freeman, W. P	July 10, 1883	281,904	McMahan, J. M	July 24, 1883
281,052	Giles, J. E	July 10, 1883	281,985	Edwards, E. A	July 24, 1883
281,351	Edison, T. A	July 17, 1883	282,297	Field, S. D	July 31, 1883

33. MAGNETO-ELECTRIC.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
282,446	De Ferranti, S. Z. and Thompson, A.	July 31, 1883	288,830	McTighe, T. J. and McConnell, J. T.	Nov. 20, 1883
282,459	Knowles, E. R.	July 31, 1883	288,915	Beeman, J. S.	Nov. 20, 1883
283,167	Thomson, E.	Aug. 14, 1883	289,200	Weston, E.	Nov. 27, 1883
283,343	Houston, E. J.	Aug. 14, 1883	290,098	Olmsted, J.	Dec. 11, 1883
283,498	Loryea, A. L. and Palmer, C. H.	Aug. 21, 1883	290,199	Ball, C. M.	Dec. 18, 1883
283,624	Lister, J. T.	Aug. 21, 1883	290,350	Paine, H. M.	Dec. 18, 1883
284,110	Zipernowsky, K. and Déri, M.	Aug. 28, 1883	290,550	Du Shane, J.	Dec. 18, 1883
284,277	Cleveland, W. B.	Sept. 4, 1883	290,551	Easton, J. W.	Dec. 18, 1883
284,288	Elphinstone, W. B. F. and Vincent, C. W.	Sept. 4, 1883	291,944	Schuyler, D. A. and Waterhouse, A. G.	Jan. 15, 1884
284,292	Gordon, J. E. H.	Sept. 4, 1883	291,973	Ball, C. E.	Jan. 15, 1884
284,357	Ball, C. E.	Sept. 4, 1883	292,079	Wenström, J.	Jan. 15, 1884
284,999	Bernstein, A.	Sept. 18, 1883	292,121	Knowles, E. R. and Idell, F. E.	Jan. 15, 1884
285,027	Gray, J.	Sept. 18, 1883	292,625	Buckley, W. F.	Jan. 29, 1884
285,249	Fitch, F. K.	Sept. 18, 1883	292,719	Weston, E.	Jan. 29, 1884
285,457	Brush, C. F.	Sept. 25, 1883	293,432	Edison, T. A.	Feb. 12, 1884
285,548	Ball, C. E.	Sept. 25, 1883	293,441	Fitch, F. K.	Feb. 12, 1884
285,549	Ball, C. E.	Sept. 25, 1883	293,482	Markle, J. R. and Wayne, J. B.	Feb. 12, 1884
285,691	Sheehy, R. J.	Sept. 25, 1883	293,758	Lubke, A. E. G.	Feb. 19, 1884
286,241	Van Choate, S. F.	Oct. 9, 1883	294,043	Hochhausen, W.	Feb. 26, 1884
286,242	Van Choate, S. F.	Oct. 9, 1883	294,094	Thomson, E.	Feb. 26, 1884
286,247	Wolcott, T.	Oct. 9, 1883	294,180	Ball, C. E.	Feb. 26, 1884
286,414	Fuller, G. W.	Oct. 9, 1883	294,270	Rae, F. B. and Healy, C. L.	Feb. 26, 1884
286,415	Fuller, G. W.	Oct. 9, 1883	294,458	Fuller, G. W.	Mar. 4, 1884
286,416	Fuller, G. W.	Oct. 9, 1883	294,613	Gramme, Z. T.	Mar. 4, 1884
286,497	Stabler, J. P.	Oct. 9, 1883	294,688	Sheehy, R. J.	Mar. 4, 1884
286,612	Houston, E. J.	Oct. 16, 1883	294,719	Ball, C. M.	Mar. 4, 1884
286,985	Woolley, L. G.	Oct. 16, 1883	294,892	Lungren, C. M.	Mar. 11, 1884
287,343	Van Depoele, C. J.	Oct. 23, 1883	294,913	Richter, C.	Mar. 11, 1884
287,512	Edison, T. A.	Oct. 30, 1883	295,206	Stevens, H. M.	Mar. 18, 1884
287,513	Edison, T. A.	Oct. 30, 1883	295,368	Dennis, T. L.	Mar. 18, 1884
287,514	Edison, T. A.	Oct. 30, 1883	295,534	Frick, F. G.	Mar. 25, 1884
287,516	Edison, T. A.	Oct. 30, 1883	295,789	McTighe, J. J.	Mar. 25, 1884
287,521	Edison, T. A.	Oct. 30, 1883	296,569	Houston, E. J. and Thomson, E.	Apr. 8, 1884
287,608	Bain, F.	Oct. 30, 1883	296,857	Lubke, A. E. G.	Apr. 15, 1884
287,609	Bain, F.	Oct. 30, 1883	297,273	Lawson, J. W.	Apr. 22, 1884
287,610	Bain, F.	Oct. 30, 1883	297,582	Edison, T. A.	Apr. 29, 1884
287,611	Bain, F.	Oct. 30, 1883	297,583	Edison, T. A.	Apr. 29, 1884
287,661	Giles, J. E.	Oct. 30, 1883	297,584	Edison, T. A.	Apr. 29, 1884
287,678	Holbon, R.	Oct. 30, 1883	297,587	Edison, T. A.	Apr. 29, 1884
287,773	Nungesser, P. P.	Oct. 30, 1883	297,878	Van Depoele, C. J.	Apr. 29, 1884
287,774	Nungesser, P. P.	Oct. 30, 1883	298,431	Van Depoele, C. J.	May 13, 1884
287,800	Brackett, C. F.	Nov. 6, 1883	298,954	Edison, T. A.	May 20, 1884
288,042	Elphinstone, W. B. F. and Vincent, C. W.	Nov. 6, 1883	298,955	Edison, T. A.	May 20, 1884
			299,117	Diehl, P.	May 27, 1884
288,051	Giles, J. E.	Nov. 6, 1883	299,551	Joel, H. F.	June 3, 1884
288,316	De Ferranti, S. Z. and Thompson, A.	Nov. 13, 1883	300,535	Van Depoele, C. J.	June 17, 1884
			300,615	Lannert, J. A.	June 17, 1884
288,818	Kimball, A. S.	Nov. 20, 1883	300,835	Blair, J. B.	June 24, 1884
288,829	McTighe, T. J.	Nov. 20, 1883	301,025	Weston, E.	June 24, 1884

76. MAGNETO-ELECTRIC.—HAND-MACHINES.

282,287	Edison, T. A.	July 31, 1883	292,153	Bowen, W. J.	Jan. 22, 1884
285,799	Conly, M. S.	Oct. 2, 1883	292,193	Abdank-Abakanowicz, B.	Jan. 22, 1884
287,573	Scribner, C. E.	Nov. 6, 1883	293,160	Gilliland, E. T.	Feb. 5, 1884
290,709	Ross, J. S.	Dec. 25, 1883	293,162	Gilliland, E. T.	Feb. 5, 1884

34. METERS.

280,563	Bradley, C. S.	July 3, 1883	286,445	Johnson, W. S.	Oct. 9, 1883
281,352	Edison, T. A.	July 17, 1883	287,501	Bradley, C. S.	Oct. 30, 1883
282,428	Weston, E.	July 31, 1883	289,862	Sheehy, R. J.	Dec. 11, 1883
282,447	De Ferranti, S. Z. and Thompson, A.	July 31, 1883	291,405	Russell, P. G.	Jan. 1, 1884
			292,161	Eaton, A. K.	Jan. 22, 1884
283,547	Weston, E.	Aug. 21, 1883	293,426	Cushing, F. W.	Feb. 12, 1884
285,572	Clarke, C. L.	Sept. 25, 1883	293,435	Edison, T. A.	Feb. 12, 1884

35. MORSE REGISTERS.

296,641	Springer, L. C.				Apr. 8, 1884
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36. MOTORS.

No.	NAME.	DATE.	No.	NAME.	DATE.
280,559	Beckwith, S. H	July 3, 1883	293,929	Waters, W. T	Feb. 19, 1884
283,546	Weston, E	Aug. 21, 1883	294,066	Nystrom, J. W	Feb. 26, 1884
284,255	Stockwell, L. W	Sept. 4, 1883	294,095	Thomson, E	Feb. 26, 1884
285,547	Ball, C. E	Sept. 25, 1883	294,165	Van Depoele, C. J	Feb. 26, 1884
285,857	Van Depoele, C. J	Oct. 2, 1883	294,717	Bacon, M	Mar. 4, 1884
286,873	Van Choate, S. F	Oct. 16, 1883	295,454	Sprague, F. J	Mar. 18, 1884
289,540	Jackson, C. A	Dec. 4, 1883	297,867	Sperry, E. A	Apr. 29, 1884
289,541	Jackson, C. A	Dec. 4, 1883	298,130	Stockwell, L. W	May 6, 1884
289,918	Kühmaier, F	Dec. 11, 1883	298,507	Saxe, C. A	May 13, 1884
291,636	Stockwell, L. W	Jan. 8, 1884	298,922	Vetter, J. C. and Putnam, S. G.	May 20, 1884
291,650	Van Depoele, C. J	Jan. 8, 1884	300,154	Starr, E. T	June 10, 1884
292,930	Lubke, A. E. G	Feb. 5, 1884	300,648	Sheridan, H. B. and Gorn, H. A.	June 17, 1884
293,556	Bradbury, W	Feb. 12, 1884	300,827	Adams, W	June 24, 1884
293,923	Van Hoevenbergh, H	Feb. 19, 1884			

38. RAILWAY-SIGNALS.

281,839	Cooper, C. A	July 24, 1883	290,209	Comstock, W. P., jr	Dec. 18, 1883
282,229	Scott, C. A	July 31, 1883	290,338	Maxwell, G. S	Dec. 18, 1883
282,230	Scott, C. A	July 31, 1883	291,095	Selden, C	Jan. 1, 1884
283,152	Scott, C. A	Aug. 14, 1883	291,360	Knight, J. K	Jan. 1, 1884
283,231	Gassett, O	Aug. 14, 1883	291,556	Vogel, W	Jan. 8, 1884
283,232	Gassett, O	Aug. 14, 1883	291,590	Gary, W. W	Jan. 8, 1884
284,669	Putnam, T. A. B	Sept. 11, 1883	291,721	Hadden, W	Jan. 8, 1884
284,670	Putnam, T. A. B	Sept. 11, 1883	10,434	Gassett, O (Reis.)	Jan. 8, 1884
284,840	Hall, A. W	Sept. 11, 1883	10,435	Gassett, O (Reis.)	Jan. 8, 1884
284,841	Hall, A. W	Sept. 11, 1883	292,687	Scott, C. A	Jan. 29, 1884
284,842	Hall, A. W	Sept. 11, 1883	292,743	Gassett, O	Jan. 29, 1884
285,589	Doyle, W. L	Sept. 25, 1883	292,744	Gassett, O	Jan. 29, 1884
285,944	Applegate, D. H	Oct. 2, 1883	293,381	Upham, J. C. and Rogers, J. P.	Feb. 12, 1884
287,446	Le Grande, W. W	Oct. 30, 1883	294,030	Gassett, O	Feb. 26, 1884
287,466	Pottinger, T. J	Oct. 30, 1883	294,116	Buys, B	Feb. 26, 1884
288,348	Lane, F	Nov. 13, 1883	295,427	Pope, F. L	Mar. 18, 1884
288,480	Phelps, W. P	Nov. 13, 1883	297,438	Parrish, M. F. and Munn, S. J.	Apr. 22, 1884
288,556	Dummer, E	Nov. 13, 1883	298,209	Jackson, C. H	May 6, 1884
289,008	Long, M. W	Nov. 27, 1883	298,913	Swayze, S. J. and Lane, J. C.	May 20, 1884
289,137	Putnam, T. A. B	Nov. 27, 1883	300,238	Finger, L	June 10, 1884
289,827	Gassett, O	Dec. 11, 1883	300,833	Bard, E. F. and Wagner, G. G.	June 24, 1884

39. RECORDERS.

280,616	Harris, W. P	July 3, 1883	293,828	Weiss, C. W	Feb. 19, 1884
284,755	Pidgin, C. F. and Leonard, F. H., jr.	Sept. 11, 1883	294,371	Davis, G. W	Mar. 4, 1884
287,291	Johnson, A. M	Oct. 23, 1883	298,341	Blodgett, A. D	May 13, 1884
287,401	Ahearn, T	Oct. 30, 1883	299,328	Beehler, W. H	May 27, 1884
287,649	Enos, J. A	Oct. 30, 1883	300,490	Lockwood, C. S	June 17, 1884

40. REGULATORS.

281,349	Edison, T. A	July 17, 1883	288,318	Edison, T. A	Nov. 13, 1883
281,350	Edison, T. A	July 17, 1883	288,393	Arnold, C. R	Nov. 13, 1883
281,579	Storer, G. W	July 17, 1883	288,963	Beeman, J. S. Taylor, W., and King, F.	Nov. 20, 1883
282,187	Giel, F. S	July 31, 1883	289,324	Weston, E	Nov. 27, 1883
283,155	Sheehy, R. J	Aug. 14, 1883	289,325	Weston, E	Nov. 27, 1883
283,548	Weston, E	Aug. 21, 1883	289,326	Weston, E	Nov. 27, 1883
285,527	Van Depoele, C. J	Sept. 25, 1883	290,025	Freeman, W. P	Dec. 11, 1883
285,528	Van Depoele, C. J	Sept. 25, 1883	290,412	Giles, J. E	Dec. 18, 1883
286,325	Mather, R. H	Oct. 9, 1883	291,141	Bradley, C. S	Jan. 1, 1884
286,833	Levy, M	Oct. 16, 1883	291,209	Lever, C	Jan. 1, 1884
286,834	Levy, M	Oct. 16, 1883	291,445	Weston, E	Jan. 1, 1884
286,841	Parkhurst, E. B	Oct. 16, 1883	291,554	Van Depoele, C. J	Jan. 8, 1884
287,345	Van Depoele, C. J	Oct. 23, 1883	291,566	Bain, F	Jan. 8, 1884
287,511	Edison, T. A	Oct. 30, 1883	292,382	Stockwell, L. W	Jan. 22, 1884
287,524	Edison, T. A	Oct. 30, 1883	292,397	Amet, E. H	Jan. 22, 1884
287,565	Murdock, G. J	Oct. 30, 1883	292,691	Sellon, J. S	Jan. 29, 1884
288,315	De Ferranti, S. Z. and Thompson, A.	Nov. 13, 1883	292,715	Weston, E	Jan. 29, 1884

40. REGULATORS.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
292,721	Weston, E.-----	Jan. 29, 1884	295,552	Hochhausen, W.-----	Mar. 25, 1884
294,038	Hochhausen, W.-----	Feb. 26, 1884	296,799	Thomson, E.-----	Apr. 15, 1884
294,039	Hochhausen, W.-----	Feb. 26, 1884	297,866	Sperry, E. A.-----	Apr. 29, 1884
294,040	Hochhausen, W.-----	Feb. 26, 1884	298,550	Burke, C. G.-----	May 13, 1884
294,041	Hochhausen, W.-----	Feb. 26, 1884	298,956	Edison, T. A.-----	May 20, 1884
294,169	Waterhouse, A. G.-----	Feb. 26, 1884	300,420	Watson, J. E.-----	June 17, 1884
294,170	Waterhouse, A. G.-----	Feb. 26, 1884	301,027	Weston, E.-----	June 24, 1884
294,307	Buckingham, C. L.-----	Feb. 26, 1884	301,028	Weston, E.-----	June 24, 1884

41. RELAYS AND SOUNDERS.

284,354	Bailey, H. L.-----	Sept. 4, 1883	288,881	Smith, W. C.-----	Nov. 20, 1883
286,917	Frazer, A. C.-----	Oct. 16, 1883	289,285	Maloney, J. A.-----	Nov. 27, 1883
286,955	O'Sullivan, M. J.-----	Oct. 16, 1883	300,269	Lamar, J. S.-----	June 10, 1884

42. REPEATERS.

286,107	Athearn, W. E.-----				Oct. 2, 1883
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43. RHEOSTATS.

283,138	O'Harra, G. W.-----	Aug. 14, 1883	297,324	Weston, E.-----	Apr. 22, 1884
285,778	Adams, W.-----	Oct. 2, 1883	298,073	Doyle, J.-----	May 6, 1884

44. SEPARATORS.

281,782	Moore, C. E.-----	July 24, 1883	292,096	Carter, G. W. L.-----	Jan. 15, 1884
282,073	Greve, H.-----	July 31, 1883	294,021	Faber, C.-----	Feb. 26, 1884
282,131	Thompson, H. M.-----	July 31, 1883	296,068	Rouleau, F. V.-----	Apr. 1, 1884
285,523	Tanner, W. J.-----	Sept. 25, 1883	298,663	Bonnett, C. P.-----	May 13, 1884
288,068	Kuhn münchen, J.-----	Nov. 6, 1883	299,259	Pike, E.-----	May 27, 1884
289,545	Mac Eachran, D.-----	Dec. 4, 1883	299,700	Van Derveer, M. T. and Hege- man, J.-----	June 3, 1884
290,182	Hastings, E. B.-----	Dec. 11, 1883			
290,259	Molloy, B. C.-----	Dec. 18, 1883	300,950	Cassel, H. R.-----	June 24, 1884

71. SWITCHES.

290,845	Breckenridge, H. W.-----				Dec. 25, 1883
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53. TELEGRAPH-POLES.

282,489	Breen, T.-----	Aug. 7, 1883	295,905	Brott, G. F.-----	Apr. 1, 1884
289,320	Suit, S. T.-----	Nov. 27, 1883	297,182	Shelbourne, S. F.-----	Apr. 22, 1884
290,752	Davis, B. A.-----	Dec. 25, 1883	298,975	Hunter, J.-----	May 20, 1884
291,435	Wagner, C. H.-----	Jan. 1, 1884			

45. TELEGRAPHS.

284,297	Hartwell, N. W.-----	Sept. 4, 1883	286,282	Delany, P. B.-----	Oct. 9, 1883
284,481	Pope, F. L.-----	Sept. 4, 1883	300,034	Vander Weyde, P. H.-----	June 10, 1884

46. TELEGRAPHS.—AUTOMATIC.

283,665	Rogers, J. W.-----	Aug. 21, 1883	293,111	Taylor, T. F.-----	Feb. 5, 1884
289,173	Taylor, T. F.-----	Nov. 27, 1883	293,112	Taylor, T. F.-----	Feb. 5, 1884
289,205	Anderson, R.-----	Nov. 27, 1883	293,974	McCarty, W. F. M.-----	Feb. 19, 1884
292,607	Wilson, M. H.-----	Jan. 29, 1884	295,219	Absterdam, J.-----	Mar. 18, 1884
293,110	Taylor, T. F.-----	Feb. 5, 1884	296,376	Anderson, R.-----	Apr. 8, 1884

47. TELEGRAPHS.—DIAL.

No.	NAME.	DATE.	No.	NAME.	DATE.
285,805	Fiske, B. A.-----	Oct. 2, 1883	295,855	Burke, C. G.-----	Mar. 25, 1884

48. TELEGRAPHS.—DUPLEX.

284,498	Smith, G. and Taylor, T. F.---	Sept. 4, 1883	291,096	Selden, C.-----	Jan. 1, 1884
286,279	Delany, P. B.-----	Oct. 9, 1883	291,097	Selden, C.-----	Jan. 1, 1884
286,280	Delany, P. B.-----	Oct. 9, 1883	291,318	Field, S. D.-----	Jan. 1, 1884
286,867	Thompson, B.-----	Oct. 16, 1883	300,781	Jones, F. W.-----	June 24, 1884

49. TELEGRAPHS.—DYNAMO.

282,294	Field, S. D.-----	July 31, 1883	282,296	Field, S. D.-----	July 31, 1883
282,295	Field, S. D.-----	July 31, 1883	288,786	Field, S. D.-----	Nov. 20, 1883

50. TELEGRAPHS.—FIRE.

280,506	Pearce, F. and Jones, J.-----	July 3, 1883	289,869	Spelman, P. H.-----	Dec. 11, 1883
280,536	Vansize, W. B.-----	July 3, 1883	290,302	Wilson, J. C.-----	Dec. 18, 1883
280,906	Buell, C. E.-----	July 10, 1883	292,311	Hinton, J. R. H.-----	Jan. 22, 1884
281,680	Frank, C. H.-----	July 24, 1883	294,008	Buell, C. E.-----	Feb. 26, 1884
283,944	Ahearn, T.-----	Aug. 28, 1883	294,308	Buell, C. E.-----	Feb. 26, 1884
284,527	Wilson, J. C.-----	Sept. 4, 1883	295,249	Henry, J. C.-----	Mar. 18, 1884
285,076	Rogers, E.-----	Sept. 18, 1883	295,759	Hill, J.-----	Mar. 25, 1884
285,459	Buell, C. E.-----	Sept. 25, 1883	296,874	Porter, M. D.-----	Apr. 15, 1884
285,983	Finch, R. S.-----	Oct. 2, 1883	296,875	Porter, M. D. and Wilder, E. R.---	Apr. 15, 1884
286,393	Copeland, F. A.-----	Oct. 9, 1883	298,945	Carter, C. H.-----	May 20, 1884
287,757	Dyer, R. N.-----	Oct. 30, 1883	299,036	Taylor, G. W., Cox, A. R., Brown, W. C., and Sutherland, J. N.---	May 20, 1884
288,107	Pearce, F.-----	Nov. 6, 1883	299,417	O'Sullivan, M. J.-----	May 27, 1884
288,536	Wilson, J. C. and Davis, M. G.---	Nov. 13, 1883	299,970	Fenner, H. N.-----	June 10, 1884
288,570	Hess, A. T.-----	Nov. 13, 1883			

51. TELEGRAPHS.—MULTIPLEX.

281,339	Calahan, E. A. and Delany, P. B.---	July 17, 1883	286,277	Delany, P. B.-----	Oct. 9, 1883
286,273	Delany, P. B.-----	Oct. 9, 1883	286,278	Delany, P. B.-----	Oct. 9, 1883
286,274	Delany, P. B.-----	Oct. 9, 1883	286,281	Delany, P. B.-----	Oct. 9, 1883
286,275	Delany, P. B.-----	Oct. 9, 1883	297,540	Smith, G.-----	Apr. 22, 1884
286,276	Delany, P. B.-----	Oct. 9, 1883			

54. TELEGRAPHS.—PRINTING.

281,788	Ostrogovich, F.-----	July 24, 1883	293,922	Van Hoevenbergh, H.-----	Feb. 19, 1884
285,709	Van Hoevenbergh, H.-----	Sept. 25, 1883	293,924	Van Hoevenbergh, H.-----	Feb. 19, 1884
285,710	Van Hoevenbergh, H.-----	Sept. 25, 1883	293,925	Van Hoevenbergh, H.-----	Feb. 19, 1884
286,667	Wirsching, A.-----	Oct. 16, 1883	293,926	Van Hoevenbergh, H.-----	Feb. 19, 1884
286,977	Van Hoevenbergh, H.-----	Oct. 16, 1883	293,927	Van Hoevenbergh, H.-----	Feb. 19, 1884
287,265	Field, S. D.-----	Oct. 23, 1883	293,928	Van Hoevenbergh, H.-----	Feb. 19, 1884
287,266	Field, S. D.-----	Oct. 23, 1883	293,959	Field, S. D.-----	Feb. 19, 1884
287,267	Field, S. D.-----	Oct. 23, 1883	295,644	Johnson, A. F.-----	Mar. 25, 1884
290,556	Field, S. D.-----	Dec. 18, 1883	299,664	McCausland, W. J.-----	June 3, 1884
290,557	Field, S. D.-----	Dec. 18, 1883	300,341	Buckingham, C. L. and Vansize, W. B.-----	June 17, 1884
290,613	Vansize, W. B. and Bucking- ham, C. L.-----	Dec. 18, 1883	300,417	Vansize, W. B. and Bucking- ham, C. L.-----	June 17, 1884
290,635	Field, S. D.-----	Dec. 18, 1883	300,859	Field, S. D.-----	June 24, 1884
291,705	Field, S. D.-----	Jan. 8, 1884			
292,966	Van Hoevenbergh, H.-----	Feb. 5, 1884			

55. TELEGRAPHS.—QUADRUPLIX.

280,753	Muirhead, A.-----	July 3, 1883	289,301	Nicholson, H. C.-----	Nov. 27, 1883
281,117	Muirhead, A.-----	July 10, 1883	291,236	Smith, G.-----	Jan. 1, 1884
281,118	Muirhead, A. and Winter, G. K.---	July 10, 1883	293,956	Eils, B. E. J.-----	Feb. 19, 1884
281,249	D'Infreville, G.-----	July 17, 1883	297,186	Smith, G.-----	Apr. 22, 1884
283,995	Gardanier, G. W.-----	Aug. 28, 1883	298,571	Gardanier, G. W.-----	May 13, 1884

56. TELEGRAPHS.—RAILWAY-CAR.

No.	NAME.	DATE.	No.	NAME.	DATE.
286,268	Cowell, E. R. E -----	Oct. 9, 1883	290,602	Pattysen, W. D. C. -----	Dec. 18, 1883

57. TELEPHONIC TELEGRAPHS.—CALLS.

280,451	Clay, H. -----	July 3, 1883	289,834	Herzog, F. B. -----	Dec. 11, 1883
280,948	Ohl, P. C. -----	July 10, 1883	292,542	Crossley, L. J., Emmott, W. and Harrison, J. F.	Jan. 29, 1884
281,450	Cary, J. H. -----	July 17, 1883			
281,614	Cary, J. H. -----	July 17, 1883	292,570	Oram, J. M., Sutton, H. M. and Garrett, H.	Jan. 29, 1884
283,354	Nichols, W. -----	Aug. 14, 1883			
283,448	Wilson, J. C. -----	Aug. 21, 1883	292,999	Fairbanks, L. S. -----	Feb. 5, 1884
283,626	Lockwood, T. D. -----	Aug. 21, 1883	293,938	Boyd, D. -----	Feb. 19, 1884
284,003	Gray, E. and Pope, F. L. -----	Aug. 28, 1883	295,913	Dudley, W. J. -----	Apr. 1, 1884
284,348	White, L. S. -----	Sept. 4, 1883	296,588	Lockwood, T. D. -----	Apr. 8, 1884
285,342	Cary, J. H. -----	Sept. 18, 1883	297,148	McFall, E. H. -----	Apr. 22, 1884
288,089	Mather, T. W. -----	Nov. 6, 1883	297,909	Bentley, E. M. -----	Apr. 29, 1884
288,449	Kinsman, J. H. -----	Nov. 13, 1883	298,383	Howes, A. P. -----	May 13, 1884
288,691	Carty, J. J. -----	Nov. 20, 1883			

58. TELEPHONIC TELEGRAPHS.—DETAILS.

281,000	Batchelor, J. F. -----	July 10, 1883	293,136	Benjamin, P. -----	Feb. 5, 1884
292,022	Maine, H. -----	Jan. 15, 1884	297,732	Ware, F. -----	Apr. 29, 1884

59. TELEPHONIC TELEGRAPHS.—ELECTRIC.

280,365	Dunand, A. -----	July 3, 1883	292,881	Ware, F. -----	Feb. 5, 1884
280,580	Clay, H. -----	July 3, 1883	293,561	Buck, H. C. -----	Feb. 12, 1884
281,560	Rogers, J. H. -----	July 17, 1883	295,741	Drawbaugh, D. -----	Mar. 25, 1884
281,895	Lockwood, T. D. -----	July 24, 1883	295,742	Drawbaugh, D. -----	Mar. 25, 1884
282,867	Eckert W. H. and Seely, J. A. -----	Aug. 7, 1883	295,805	Randall, C. A. -----	Mar. 25, 1884
282,969	Egan, C. -----	Aug. 14, 1883	295,806	Randall, C. A. -----	Mar. 25, 1884
283,062	Blake, F., jr. -----	Aug. 14, 1883	295,807	Randall, C. A. -----	Mar. 25, 1884
283,123	Lockwood, W. C. -----	Aug. 14, 1883	296,421	Maloney, J. A. -----	Apr. 8, 1884
285,102	Berliner, E. -----	Sept. 18, 1883	296,593	Maloney, J. A. -----	Apr. 8, 1884
286,923	Haskins, C. D. -----	Oct. 16, 1883	296,676	Chadwick, S. -----	Apr. 8, 1884
287,166	Reynolds, C. C. -----	Oct. 23, 1883	296,829	Gillett, W. -----	Apr. 15, 1884
287,169	Rogers, J. H. -----	Oct. 23, 1883	297,167	Rogers, J. H. -----	Apr. 22, 1884
287,490	Wilson, E. L. -----	Oct. 30, 1883	297,168	Rogers, J. H. -----	Apr. 22, 1884
288,017	Clay, H. -----	Nov. 6, 1883	297,578	Drawbaugh, D. -----	Apr. 29, 1884
288,215	Dolbear, A. E. -----	Nov. 13, 1883	297,579	Drawbaugh, D. -----	Apr. 29, 1884
290,980	Drawbaugh, D. -----	Dec. 25, 1883	298,286	Clay, H. -----	May 6, 1884
291,311	Drawbaugh, D. -----	Jan. 1, 1884	298,676	Drawbaugh, D. -----	May 13, 1884
291,312	Drawbaugh, D. -----	Jan. 1, 1884	298,677	Drawbaugh, G. W. -----	May 13, 1884
291,472	Drawbaugh, D. -----	Jan. 1, 1884	298,923	Waite, H. E. -----	May 20, 1884
291,866	Berliner, E. -----	Jan. 15, 1884	298,925	Waite, H. E. -----	May 20, 1884
292,203	Cheever, J. H. -----	Jan. 22, 1884	299,073	Husbands, J. D. -----	May 20, 1884
292,212	Eckert, W. H. -----	Jan. 22, 1884	299,968	Torre, F. D. -----	June 10, 1884
292,603	Waite, H. E. -----	Jan. 29, 1884	300,422	West, W. A. -----	June 17, 1884
292,835	Mehren, J. F. -----	Feb. 5, 1884			

60. TELEPHONIC TELEGRAPHS.—MAGNETIC.

280,800	Crossley, L. J. -----	July 10, 1883	291,684	Cheever, J. H. -----	Jan. 8, 1884
281,240	Cheever, J. H. -----	July 17, 1883	291,802	Sutton, L. W., jr. -----	Jan. 8, 1884
281,414	Stearns, J. M., jr. -----	July 17, 1883	292,335	Lockwood, T. D. and Lane, T. W.	Jan. 22, 1884
286,737	Shepherd, G. R. -----	Oct. 16, 1883	292,602	Waite, H. E. -----	Jan. 29, 1884
286,875	Waite, H. E. -----	Oct. 16, 1883	293,154	Drawbaugh, D. -----	Feb. 5, 1884
286,876	Waite, H. E. -----	Oct. 16, 1883	295,804	Randall, C. A. -----	Mar. 25, 1884
287,742	Waite, H. E. -----	Oct. 30, 1883	296,420	Maloney, J. A. -----	Apr. 8, 1884
287,743	Waite, H. E. and Bartlett, S. H. -----	Oct. 30, 1883	297,166	Rogers, J. H. -----	Apr. 22, 1884
287,896	Bartlett, S. H. and Waite, H. E. -----	Nov. 6, 1883	297,470	Strangways, H. B. T. -----	Apr. 22, 1884
289,309	Robertson, J. H. -----	Nov. 27, 1883	298,783	Scribner, C. E. -----	May 20, 1884
290,978	Drawbaugh, D. -----	Dec. 25, 1883	298,924	Waite, H. E. -----	May 20, 1884
290,979	Drawbaugh, D. -----	Dec. 25, 1883	299,074	Husbands, J. D. -----	May 20, 1884

61. TELEPHONIC TELEGRAPHS.—MECHANICAL.

No.	NAME.	DATE.	No.	NAME.	DATE.
281,406	Selden, C.-----	July 17, 1883	291,094	Selden, C.-----	Jan. 1, 1884
281,407	Selden, C.-----	July 17, 1883	292,858	Rogers, J. H.-----	Feb. 5, 1884
285,004	Bowen, W. J.-----	Sept. 18, 1883	294,238	Huston, H. E.-----	Feb. 26, 1884
285,269	Huston, H. E.-----	Sept. 18, 1883	296,230	Seligman, H. and E.-----	Apr. 1, 1884
286,680	Botts, B. N.-----	Oct. 16, 1883	296,330	Gilliland, J. F.-----	Apr. 8, 1884
288,366	Rogers, J. H.-----	Nov. 13, 1883	298,479	Kurtz, A. B.-----	May 13, 1884
288,835	Miller, A. G.-----	Nov. 20, 1883	300,713	Kundson, A. A.-----	June 17, 1884
289,620	Clark, J. W.-----	Dec. 4, 1883			

77. TELEPHONIC TELEGRAPHS.—RELAYS AND REPEATERS.

287,111	Drawbaugh, D.-----	Oct. 23, 1883	290,898	Lockwood, T. D.-----	Dec. 25, 1883
287,449	Maloney, J. A.-----	Oct. 30, 1883	297,724	Smith, D. E.-----	Apr. 29, 1884

64. TELEPHONIC TELEGRAPHS.—SYSTEMS.

280,351	Clay, H.-----	July 3, 1883	289,180	Tregurtha, J.-----	Nov. 27, 1883
280,662	Perrin, T. J.-----	July 3, 1883	289,321	Tregurtha, J.-----	Nov. 27, 1883
280,663	Perrin, T. J.-----	July 3, 1883	289,353	Loring, C. T.-----	Nov. 27, 1883
280,707	Anders, G. L.-----	July 3, 1883	289,539	Jackson, C. A.-----	Dec. 4, 1883
281,381	Loring, C. T.-----	July 17, 1883	290,307	Allen, C. E.-----	Dec. 18, 1883
281,413	Stearns, J. M., jr.-----	July 17, 1883	290,730	Bartelous, J. V. M.-----	Dec. 25, 1883
281,478	Farnham, I. H.-----	July 17, 1883	291,915	Lockwood, T. D.-----	Jan. 15, 1884
281,613	Cardwell, G. A.-----	July 17, 1883	292,857	Rogers, J. H.-----	Feb. 5, 1884
281,741	Warner, J. C.-----	July 24, 1883	292,865	Scribner, C. E.-----	Feb. 5, 1884
282,699	Brock, W. M.-----	Aug. 7, 1883	292,866	Scribner, C. E.-----	Feb. 5, 1884
282,791	Snell, F. H.-----	Aug. 7, 1883	293,118	Townsend, L.-----	Feb. 5, 1884
282,841	Busteed, R.-----	Aug. 7, 1883	293,161	Gilliland, E. T.-----	Feb. 5, 1884
283,312	Wilson, C. H.-----	Aug. 14, 1883	293,171	Haskins, C. D.-----	Feb. 5, 1884
283,334	Firman, L. B.-----	Aug. 14, 1883	293,196	Scribner, C. E.-----	Feb. 5, 1884
283,747	Belcher, W. A.-----	Aug. 28, 1883	293,197	Scribner, C. E.-----	Feb. 5, 1884
283,806	O'Donel, I. M.-----	Aug. 28, 1883	293,198	Scribner, C. E.-----	Feb. 5, 1884
283,927	Scribner, C. E.-----	Aug. 28, 1883	293,206	Wilsou, E. M.-----	Feb. 5, 1884
284,102	Warner, E. P.-----	Aug. 28, 1883	293,736	Hibbard, A. S.-----	Feb. 19, 1884
284,594	Barrett, J. P.-----	Sept. 11, 1883	294,297	Wilkins, G. A.-----	Feb. 26, 1884
284,595	Barrett, J. P.-----	Sept. 11, 1883	294,336	Scribner, C. E.-----	Feb. 26, 1884
284,908	Scribner, C. E.-----	Sept. 11, 1883	294,482	Lytle, F. M. and McCoy, J. A.-----	Mar. 4, 1884
284,909	Scribner, C. E.-----	Sept. 11, 1883	295,223	Blake, F.-----	Mar. 18, 1884
285,245	Fenn, J. E.-----	Sept. 18, 1883	295,356	Connolly, T. A.-----	Mar. 18, 1884
285,670	Phelps, G. M., jr.-----	Sept. 25, 1883	295,365	Davis, A. G.-----	Mar. 18, 1884
286,518	Wilkins, G. A.-----	Oct. 9, 1883	295,531	Fish, G. W.-----	Mar. 25, 1884
286,595	Durant, G. F.-----	Oct. 16, 1883	295,983	Cook, F. B. and Graves, F. F.-----	Apr. 1, 1884
287,300	Lane, T. W.-----	Oct. 23, 1883	296,253	Vail, T. N.-----	Apr. 1, 1884
287,301	Lane, T. W.-----	Oct. 23, 1883	298,243	Shaver, G. F.-----	May 6, 1884
287,356	Anders, G. L.-----	Oct. 23, 1883	298,559	Doolittle, T. B.-----	May 13, 1884
287,710	Oram, J. M.-----	Oct. 30, 1883	299,039	Vail, T. N.-----	May 20, 1884
288,183	Ohly, C. H.-----	Nov. 6, 1883	299,070	Herzog, F. B.-----	May 20, 1884
288,320	Eckert, W. H., Seely, J. A. and Eckert, E. A.-----	Nov. 13, 1883	299,288	Stewart, J. N.-----	May 27, 1884
			299,300	Warth, N. G.-----	May 27, 1884
288,627	Eckert, W. H. and Seely, J. A.-----	Nov. 20, 1883	299,603	Warner, J. C. and E. P.-----	June 3, 1884
288,908	Wright, C. D. and Fisher, C. A.-----	Nov. 20, 1883	299,926	Haskins, C. H.-----	June 3, 1884
288,909	Wright, C. D. and Fisher, C. A.-----	Nov. 20, 1883	300,143	Scribner, C. E.-----	June 10, 1884
289,178	Tregurtha, J.-----	Nov. 27, 1883	300,144	Scribner, C. E.-----	June 10, 1884
289,179	Tregurtha, J.-----	Nov. 27, 1883			

66. THERAPEUTICS.—BODY-WEAR.

285,977	Dennis, J. W.-----	Oct. 2, 1883	287,170	Roovers, A. and A.-----	Oct. 23, 1883
287,096	Carr, J. E.-----	Oct. 23, 1883	293,679	Stark, W. F.-----	Feb. 19, 1884

67. THERAPEUTICS.—ELECTRODES.

282,431	Andrews, A. W. K. and Teed, C. R.-----	July 31, 1883	285,852	Stilwell, R.-----	Oct. 2, 1883
			285,853	Stilwell, R.-----	Oct. 2, 1883
282,561	Palmer, F. A.-----	Aug. 7, 1883	285,854	Stilwell, R.-----	Oct. 2, 1883

68. THERMOSTATS.

No.	NAME.	DATE.	No.	NAME.	DATE.
281,877	Hewitt, R., jr -----	July 24, 1883	294,405	Rider, A. K -----	Mar. 4, 1884
281,884	Johnson, W. S -----	July 24, 1883	295,760	Hill, J -----	Mar. 25, 1884
285,676	Prentiss, F. H. and Tilden, J. A. -----	Sept. 25, 1883	296,058	Porter, M. D -----	Apr. 1, 1884
292,992	Cornelius, O. H. P. and Turner, G. H. -----	Feb. 5, 1884	298,121	Ross, C. T -----	May 6, 1884

83. TRANSMISSION OF POWER.

289,197	Weston, E. -----	Nov. 27, 1883	300,443	Buell, C. E -----	June 17, 1884
289,198	Weston, E. -----	Nov. 27, 1883			

69. TRANSMITTERS.

283,716	Lyon, H -----	Aug. 21, 1883	295,075	Stone, R. C -----	Mar. 11, 1884
283,736	Johnson, W. S -----	Aug. 21, 1883	299,949	Bishoprick, N. J -----	June 10, 1884
287,914	Dement, M. H -----	Nov. 6, 1883	300,353	Farrar, J. N. and Morse, C. W. -----	June 17, 1884
295,074	Stone, R. C -----	Mar. 11, 1884			

70. UNDERGROUND LINES.

280,764	Rafer, E. E. and E. G -----	July 3, 1883	290,414	Goebel, C. H -----	Dec. 18, 1883
280,869	Smith, F. A -----	July 10, 1883	290,415	Goebel, C. H -----	Dec. 18, 1883
280,919	Du Shane, J -----	July 10, 1883	290,416	Goebel, C. H -----	Dec. 18, 1883
281,064	Hendley, W -----	July 10, 1883	291,317	Field, S. D -----	Jan. 1, 1884
281,220	Hendley, W -----	July 10, 1883	291,371	Mayall, T. J -----	Jan. 1, 1884
281,722	Patterson, W. R -----	July 24, 1883	291,478	Horner, J. W -----	Jan. 1, 1884
282,010	Putnam, T. A. B -----	July 24, 1883	291,798	Starr, E. T -----	Jan. 8, 1884
282,833	Bannister, L -----	Aug. 7, 1883	291,849	Howson, H -----	Jan. 8, 1884
283,807	Omensetter, E -----	Aug. 28, 1883	291,996	Dorsett, D. H., Morris, J. E. and Williams, B. -----	Jan. 15, 1884
284,099	Waring, R. S -----	Aug. 28, 1883			
284,100	Waring, R. S -----	Aug. 28, 1883	293,214	Averell, W. W -----	Feb. 12, 1884
284,139	McElroy, W. J -----	Aug. 28, 1883	293,533	Smith, T. L -----	Feb. 12, 1884
284,413	Green, I. M. and Birch, J. P. -----	Sept. 4, 1883	293,632	Cobb, H. B -----	Feb. 19, 1884
284,643	Lenderoth, W -----	Sept. 11, 1883	293,688	Trask, C. H -----	Feb. 19, 1884
284,655	O'Reilly, A. J -----	Sept. 11, 1883	294,365	Cobb, H. B -----	Mar. 4, 1884
284,794	Allen, S. M -----	Sept. 11, 1883	294,500	Patterson, W. R -----	Mar. 4, 1884
284,854	Hyde, J. B -----	Sept. 11, 1883	294,536	Waring, R. S -----	Mar. 4, 1884
284,855	Hyde, J. B -----	Sept. 11, 1883	294,537	Waring, R. S -----	Mar. 4, 1884
285,267	How, W. S -----	Sept. 18, 1883	294,538	Waring, R. S -----	Mar. 4, 1884
285,657	Orvis, O. D. and Adams, N. B. -----	Sept. 25, 1883	294,539	Waring, R. S -----	Mar. 4, 1884
286,861	Speed, F. M -----	Oct. 16, 1883	294,540	Waring, R. S -----	Mar. 4, 1884
286,938	Martin, J. F -----	Oct. 16, 1883	294,541	Waring, R. S -----	Mar. 4, 1884
286,939	Martin, J. F -----	Oct. 16, 1883	294,542	Waring, R. S -----	Mar. 4, 1884
286,940	Martin, J. F -----	Oct. 16, 1883	294,543	Waring, R. S -----	Mar. 4, 1884
286,941	Martin, J. F -----	Oct. 16, 1883	294,544	Waring, R. S -----	Mar. 4, 1884
286,942	Martin, J. F -----	Oct. 16, 1883	294,545	Waring, R. S -----	Mar. 4, 1884
286,943	Martin, J. F -----	Oct. 16, 1883	294,546	Waring, R. S -----	Mar. 4, 1884
286,944	Martin, J. F -----	Oct. 16, 1883	294,547	Waring, R. S -----	Mar. 4, 1884
286,945	Martin, J. F -----	Oct. 16, 1883	294,548	Waring, R. S -----	Mar. 4, 1884
286,947	Martin, J. F -----	Oct. 16, 1883	294,549	Waring, R. S -----	Mar. 4, 1884
286,950	Martin, J. F -----	Oct. 16, 1883	294,550	Waring, R. S -----	Mar. 4, 1884
287,237	Clark, E -----	Oct. 23, 1883	294,557	Wilson, W. V -----	Mar. 4, 1884
287,509	Du Bois, J. S -----	Oct. 30, 1883	294,703	Verstraete, E -----	Mar. 4, 1884
287,532	Goddard, C -----	Oct. 30, 1883	294,906	Perrin, T. J -----	Mar. 11, 1884
287,533	Goddard, C -----	Oct. 30, 1883	295,086	Waring, R. S -----	Mar. 11, 1884
288,002	Brown, F. W -----	Nov. 6, 1883	10,458	Waring, R. S ----- (Reis.)	Mar. 11, 1884
288,033	Detrick, C -----	Nov. 6, 1883	10,459	Waring, R. S ----- (Reis.)	Mar. 11, 1884
288,310	Cobb, H. B -----	Nov. 13, 1883	295,334	Berry, W. and Stuart, P. -----	Mar. 18, 1884
288,311	Cobb, H. B -----	Nov. 13, 1883	295,710	Wylie, R -----	Mar. 25, 1884
288,555	Dryer, B. A -----	Nov. 13, 1883	296,146	Davis, W. H -----	Apr. 1, 1884
288,629	Gilman, C. C -----	Nov. 20, 1883	296,185	Kruesi, J -----	Apr. 1, 1884
288,790	Giles, J. E -----	Nov. 20, 1883	296,774	Patterson, W. R -----	Apr. 15, 1884
289,164	Strohm, S. D -----	Nov. 27, 1883	297,179	Shelbourne, S. F -----	Apr. 22, 1884
289,165	Strohm, S. D -----	Nov. 27, 1883	297,183	Shelbourne, S. F -----	Apr. 22, 1884
289,166	Strohm, S. D -----	Nov. 27, 1883	297,397	Hildebrand, E. O -----	Apr. 22, 1884
289,891	Chambers, J. C -----	Dec. 11, 1883	297,462	Smith, T. L -----	Apr. 22, 1884
290,375	Waring, R. S -----	Dec. 18, 1883	297,463	Smith, T. L -----	Apr. 22, 1884
290,413	Goebel, C. H -----	Dec. 18, 1883	297,926	Goebel, C. H -----	Apr. 29, 1884

70. UNDERGROUND LINES.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
297,927	Goebel, C. H -----	Apr. 29, 1884	299,992	Magner, W-----	June 10, 1884
297,929	Goebel, C. H -----	Apr. 29, 1884	300,005	Patterson, W. R -----	June 10, 1884
298,020	Page, J. H -----	May 6, 1884	300,210	Campbell, A.-----	June 10, 1884
299,206	Deavs, C -----	May 27, 1884	300,470	Hathaway, M. P -----	June 17, 1884
299,449	Woodward, J. S.-----	May 27, 1884			

84. VALVE CONTROLLERS.

297,937	Johnson, W. S-----	Apr. 29, 1884	301,059	Johnson, W. S-----	June 24, 1884
300,338	Amet, E. H -----	June 17, 1884			

APPENDIX No. III.

PART II.

CONSISTING OF AN

NUMERICAL AND CHRONOLOGICAL INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1883, to June 30, 1884, inclusive, giving names of Inventors, numbers and dates, of Patents, and the sub-class to which each belongs.

NUMERICAL INDEX

OF

PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1883, TO JUNE 30, 1884.

No.	NAME.	CLASS.	DATE.
280,340	Bernstein, A	Lights, incandescent	July 3, 1883
280,341	Bernstein, A	do	July 3, 1883
280,351	Glax, H	Telephonic telegraphs, systems	July 3, 1883
280,365	Dunand, A	Telephonic telegraphs, electric	July 3, 1883
280,366	Dunham, T. H	Conductors	July 3, 1883
280,426	Wheeler, W	Lights, arc	July 3, 1883
280,439	Ball, R. E	Magneto-electric	July 3, 1883
280,451	Clay, H	Telephonic telegraphs, calls	July 3, 1883
280,472	Helman, O. A	Alarms, burglar	July 3, 1883
280,474	Herrmann, L. A. F	Conductors	July 3, 1883
280,506	Pearce, F. and Jones, J.	Telegraphs, fire	July 3, 1883
280,518	Rogers, J. W	Conductors	July 3, 1883
280,521	Sawyer, W. H	do	July 3, 1883
280,536	Vansize, W. B	Telegraphs, fire	July 3, 1883
280,559	Beckwith, S. H	Motors	July 3, 1883
280,563	Bradley, C. S	Meters	July 3, 1883
280,578	Chester, W. F	Alarms, burglar	July 3, 1883
280,580	Clay, H	Telephonic telegraphs, electric	July 3, 1883
280,616	Harris, W. P	Recorders	July 3, 1883
280,662	Perrin, T. J	Telephonic telegraphs, systems	July 3, 1883
280,663	Perrin, T. J	do	July 3, 1883
280,677	Senour, F. I.	Lights, arc	July 3, 1883
280,689	Towan, J. H	Gas-lighting	July 3, 1883
280,707	Anders, G. L	Telephonic telegraphs, systems	July 3, 1883
280,708	Bain, F	Magneto-electric	July 3, 1883
280,709	Bain, F	Lights, arc	July 3, 1883
280,715	Buell, C. E	Clocks	July 3, 1883
280,727	Edison, T. A	Lights, systems and appliances	July 3, 1883
280,753	Muirhead, A	Telegraphs, quadruplex	July 3, 1883
280,763	Rabl, F	Lights, arc	July 3, 1883
280,764	Rafer, E. E. and E. G	Underground lines	July 3, 1883
280,800	Crossley, L. J	Telephonic telegraphs, magnetic	July 10, 1883
280,833	Loomis, B.	Applications, general	July 10, 1883
280,850	Orton, B. F	Lights, systems and appliances	July 10, 1883
280,869	Smith, F. A	Underground lines	July 10, 1883
280,882	Tichenor, A. C	Applications, general	July 10, 1883
280,906	Buell, C. E	Telegraphs, fire	July 10, 1883
280,916	Drake, C. C	Lightning-arresters	July 10, 1883
280,919	DuShane, J	Underground lines	July 10, 1883
280,933	Karshner, W. W	Batteries, galvanic	July 10, 1883
280,947	Ohl, P. C	Conductors	July 10, 1883
280,948	Ohl, P. C	Telephonic telegraphs, calls	July 10, 1883
281,000	Batchelor, J. F	Telephonic telegraphs, details	July 10, 1883
281,048	Frasch, H	Lights, arc	July 10, 1883
281,049	Freeman, W. P	Magneto-electric	July 10, 1883
281,052	Giles, J. E	do	July 10, 1883
281,064	Hendley, W	Underground lines	July 10, 1883
281,097	McGinnis, W. T	Induction-coils	July 10, 1883
281,117	Muirhead, A	Telegraphs, quadruplex	July 10, 1883
281,118	Muirhead, A. and Winter, G. K	do	July 10, 1883
281,156	Starr, E. T	Batteries, secondary	July 10, 1883
281,175	Brush, C. F	Batteries, secondary, applications	July 10, 1883
281,176	Brush, C. F	do	July 10, 1883
281,202	Phelps, L. J	Circuit-closers	July 10, 1883
281,220	Hendley, W	Underground lines	July 10, 1883
281,223	Rogers, H. D	Conductors	July 10, 1883
281,224	Goodsell, B. H., Adamson, C. and Hering, C. O	Applications, tools and machines	July 10, 1883
281,229	Ball, C. M	Lights, arc	July 17, 1883
281,240	Cheever, J. H	Telephonic telegraphs, magnetic	July 17, 1883

No.	NAME.	CLASS.	DATE.
281,249	D'Infreville, G	Telegraphs, quadruplex	July 17, 1883
281,262	Gilbert, J. W. and Starr, E. T	Batteries, galvanic	July 17, 1883
281,285	Moffitt, J. A	Lights, arc	July 17, 1883
281,339	Calahan, E. A. and Delany, P. B	Telegraphs, multiplex	July 17, 1883
281,345	Crockett, C. H	Gas-lighting	July 17, 1883
281,349	Edison, T. A	Regulators	July 17, 1883
281,350	Edison, T. A	do	July 17, 1883
281,351	Edison, T. A	Magneto-electric	July 17, 1883
281,352	Edison, T. A	Meters	July 17, 1883
281,353	Edison, T. A	Magneto-electric	July 17, 1883
281,362	Hart, L. H	Keys	July 17, 1883
281,363	Heap, D. P	Lights, systems and appliances	July 17, 1883
281,387	Loring, C. T	Telephonic telegraphs, systems	July 17, 1883
281,406	Selden, C	Telephonic telegraphs, mechanical	July 17, 1883
281,407	Selden, C	do	July 17, 1883
281,412	Starr, E. T. and E. E	Lights, systems and appliances	July 17, 1883
281,413	Stearns, J. M., jr	Telephonic telegraphs, systems	July 17, 1883
281,414	Stearns, J. M., jr	Telephonic telegraphs, magnetic	July 17, 1883
281,416	Thomson, E	Magneto-electric	July 17, 1883
281,450	Cary, J. H	Telephonic telegraphs, calls	July 17, 1883
281,452	Chapman, T. L	Insulators	July 17, 1883
281,471	Drysdale, W. A	Gas-lighting	July 17, 1883
281,478	Farnham, I. H	Telephonic telegraphs, systems	July 17, 1883
281,560	Rogers, J. H	Telephonic telegraphs, electric	July 17, 1883
281,576	Sticringer, L	Lights, systems and appliances	July 17, 1883
281,579	Storer, G. W	Regulators	July 17, 1883
281,585	Wagner, G. G	Clocks	July 17, 1883
281,603	Bartlett, C	Keys	July 17, 1883
281,613	Cardwell, G. A	Telephonic telegraphs, systems	July 17, 1883
281,614	Cary, J. H	Telephonic telegraphs, calls	July 17, 1883
281,672	Crocker, F. B., Curtis, C. G. and Wheeler, S. S	Locomotion	July 24, 1883
281,680	Frank, C. H	Telegraphs, fire	July 24, 1883
281,698	Keith, N. S	Lights, arc	July 24, 1883
281,722	Patterson, W. R	Underground lines	July 24, 1883
281,723	Patterson, W. R	Lightning-arresters	July 24, 1883
281,730	Ricketts, P. C	Connectors	July 24, 1883
281,741	Warner, J. C	Telephonic telegraphs, systems	July 24, 1883
281,782	Moore, C. E	Separators	July 24, 1883
281,788	Ostrogovich, F	Telegraphs, printing	July 24, 1883
281,799	Sheehy, R. J	Lights, systems and appliances	July 24, 1883
281,800	Sheehy, R. J	Lights, arc	July 24, 1883
281,839	Cooper, C. A	Railway-signals	July 24, 1883
281,841	Cowles, A. A	Conductors	July 24, 1883
281,859	Fox, E	Locomotion	July 24, 1883
281,864	Gilpin, J. F	Conductors	July 24, 1883
281,877	Hewitt, R., jr	Thermostats	July 24, 1883
281,884	Johnson, W. S	do	July 24, 1883
281,891	Lea, J	Lights, arc	July 24, 1883
281,895	Lockwood, T. D	Telephonic telegraphs, electric	July 24, 1883
281,904	McMahan, J. M	Magneto-electric	July 24, 1883
281,931	Shivler, C. S	Annunciators	July 24, 1883
281,937	Spang, H. W	Lights, systems and appliances	July 24, 1883
281,985	Edwards, E. A	Magneto-electric	July 24, 1883
281,999	Hyde, J. B	Conductors	July 24, 1883
282,010	Putnam, T. A. B	Underground lines	July 24, 1883
282,016	Van Benschoten, S. and Johnson, H. H	Annunciators	July 24, 1883
282,030	Adams, I., jr	Lights, incandescent	July 31, 1883
282,043	Bogart, A. L	Gas-lighting	July 31, 1883
282,073	Greve, H	Separators	July 31, 1883
282,131	Thompson, H. M	do	July 31, 1883
282,157	Burton, G. D	Lights, systems and appliances	July 31, 1883
282,158	Burton, G. D	do	July 31, 1883
282,165	Cheever, C. A	Locomotion	July 31, 1883
282,187	Giel, F. S	Regulators	July 31, 1883
282,190	Hall, H. D	Applications, general	July 31, 1883
282,227	Richter, P	Gas-lighting	July 31, 1883
282,229	Scott, C. A	Railway-signals	July 31, 1883
282,230	Scott, C. A	do	July 31, 1883
282,246	Wall, F. J	Circuit-closers	July 31, 1883
282,249	Westinghouse, G., jr	Connectors	July 31, 1883
282,250	Westinghouse, G., jr	do	July 31, 1883
282,287	Edison, T. A	Magneto-electric, hand-machines	July 31, 1883
282,294	Field, S. D	Telegraphs, dynamo	July 31, 1883
282,295	Field, S. D	do	July 31, 1883
282,296	Field, S. D	do	July 31, 1883
282,297	Field, S. D	Magneto-electric	July 31, 1883
282,317	Hinds, C. H	Lights, systems and appliances	July 31, 1883

No.	NAME.	CLASS.	DATE.
282,318	Hinds, C. H.	Lights, systems and appliances	July 31, 1883
282,319	Holbrook, Z. S.	Locomotion	July 31, 1883
282,396	Starr, E. T.	Batteries, secondary	July 31, 1883
282,414	Van Depoele, C. J.	do	July 31, 1883
282,428	Weston, E.	Meters	July 31, 1883
282,431	Andrews, A. W. K. and Teed, C. R.	Therapeutics, electrodes	July 31, 1883
282,446	De Ferranti, S. Z. and Thompson, A.	Magneto-electric	July 31, 1883
282,447	De Ferranti, S. Z. and Thompson, A.	Meters	July 31, 1883
282,449	Dodge, T. H.	Lightning-rods	July 31, 1883
282,459	Knowles, E. R.	Magneto-electric	July 31, 1883
282,460	Knowles, E. R.	Lights, incandescent	July 31, 1883
282,461	Knowles, E. R.	Lights, arc	July 31, 1883
282,472	Swan, A.	Lights, incandescent	July 31, 1883
282,489	Breen, T.	Telegraph-poles	Aug. 7, 1883
282,521	Holtzer, C. W.	Lights, incandescent	Aug. 7, 1883
282,534	Knowles, E. R. and Idell, F. E.	do	Aug. 7, 1883
282,561	Palmer, F. A.	Therapeutics, electrodes	Aug. 7, 1883
282,562	Patee, T. H.	Lightning-rods	Aug. 7, 1883
282,634	Hayes, P. S.	Batteries, galvanic	Aug. 7, 1883
282,680	Sparling, J. A.	Conductors	Aug. 7, 1883
282,699	Brook, W. M.	Telephonic telegraphs, systems	Aug. 7, 1883
282,784	Schlosser, E. F.	Batteries, galvanic	Aug. 7, 1883
282,791	Snell, F. H.	Telephonic telegraphs, systems	Aug. 7, 1883
282,795	Starr, E. T.	Batteries, galvanic	Aug. 7, 1883
282,816	White, L. S.	Gas-lighting	Aug. 7, 1883
282,822	Willard, C. A.	Applications, general	Aug. 7, 1883
282,833	Bannister, L.	Underground lines	Aug. 7, 1883
282,841	Busteed, R.	Telephonic telegraphs, systems	Aug. 7, 1883
282,861	D'Humy, P. R. de F.	Lights, incandescent	Aug. 7, 1883
282,867	Eckert, W. H. and Seely, J. A.	Telephonic telegraphs, electric	Aug. 7, 1883
282,879	Garrett, D.	Electrolysis	Aug. 7, 1883
282,884	Guest, J. H.	Lights, systems and appliances	Aug. 7, 1883
282,890	Hinds, C. H.	Gas-lighting	Aug. 7, 1883
282,914	Martin, J. F.	Conductors	Aug. 7, 1883
282,921	Plush, S. M.	Lightning-arresters	Aug. 7, 1883
282,964	Delaplaine, J. L., Hendrickson, J. G. and Clamer, F. J.	Applications, general	Aug. 14, 1883
282,969	Egan, C.	Telephonic telegraphs, electric	Aug. 14, 1883
283,042	Thomas, W. M.	Lights, arc	Aug. 14, 1883
283,044	Turner, D. B.	Conductors	Aug. 14, 1883
283,058	Arnheim, M.	Applications, tools and machines	Aug. 14, 1883
283,062	Blake, F., jr.	Telephonic telegraphs, electric	Aug. 14, 1883
283,073	Capron, J.	Annunciators	Aug. 14, 1883
283,123	Lockwood, W. C.	Telephonic telegraphs, electric	Aug. 14, 1883
283,138	O'Harra, G. W.	Rheostats	Aug. 14, 1883
283,140	Pope, H. W.	Conductors	Aug. 14, 1883
283,152	Scott, C. A.	Railway-signals	Aug. 14, 1883
283,155	Sheehy, R. J.	Regulators	Aug. 14, 1883
283,166	Thomas, H. C.	Lightning-rods	Aug. 14, 1883
283,167	Thomson, E.	Magneto-electric	Aug. 14, 1883
283,168	Thomson, E.	Lights, arc	Aug. 14, 1883
283,186	Bain, F.	do	Aug. 14, 1883
283,200	Brissett, H. R. and Howe, J.	Conductors	Aug. 14, 1883
283,231	Gassett, O.	Railway-signals	Aug. 14, 1883
283,232	Gassett, O.	do	Aug. 14, 1883
283,270	Mott, S. D.	Lights, incandescent	Aug. 14, 1883
283,276	Pope, H. W.	Connectors	Aug. 14, 1883
283,295	Starr, E. T.	Batteries, secondary	Aug. 14, 1883
283,303	Tirrell, J. P.	Circuit-closers	Aug. 14, 1883
283,312	Wilson, C. H.	Telephonic telegraphs, systems	Aug. 14, 1883
283,334	Firman, L. B.	do	Aug. 14, 1883
283,343	Houston, E. J.	Magneto-electric	Aug. 14, 1883
283,354	Nichols, W.	Telephonic telegraphs, calls	Aug. 14, 1883
283,355	Orne, C. P.	Batteries, galvanic	Aug. 14, 1883
283,433	Stanley, H. D. and Doolittle, G.	Conductors	Aug. 21, 1883
283,437	Thomson, E.	Lights, arc	Aug. 21, 1883
283,448	Wilson, J. C.	Telephonic telegraphs, calls	Aug. 21, 1883
283,482	Haskins, C. D.	Lights, arc	Aug. 21, 1883
283,492	Kinsman, F. E.	Cut-outs, thermal	Aug. 21, 1883
283,493	Loryea, A. M. and Palmer, C. H.	Magneto-electric	Aug. 21, 1883
283,544	Weston, E.	Lights, systems and appliances	Aug. 21, 1883
283,545	Weston, E.	do	Aug. 21, 1883
283,546	Weston, E.	Motors	Aug. 21, 1883
283,547	Weston, E.	Meters	Aug. 21, 1883
283,548	Weston, E.	Regulators	Aug. 21, 1883
283,549	Weston, E.	Lights, systems and appliances	Aug. 21, 1883
283,590	Flint, E., jr.	Annunciators	Aug. 21, 1883

No.	NAME.	CLASS.	DATE.
283,624	Lister, J. T.	Magneto-electric	Aug. 21, 1883
283,626	Lockwood, T. D.	Telephonic telegraphs, calls	Aug. 21, 1883
283,629	Maxim, H. S.	Lights, arc	Aug. 21, 1883
283,662	Richter, C.	do	Aug. 21, 1883
283,665	Rogers, J. W.	Telegraphs, automatic	Aug. 21, 1883
283,716	Lyon, H.	Transmitters	Aug. 21, 1883
283,736	Johnson, W. S.	do	Aug. 21, 1883
283,747	Belcher, W. A.	Telephonic telegraphs, systems	Aug. 28, 1883
283,748	Bernstein, A.	Lights, systems and appliances	Aug. 28, 1883
283,759	Daft, L.	Locomotion	Aug. 28, 1883
283,760	Daft, L.	Conductors	Aug. 28, 1883
283,761	Daft, L.	Locomotion	Aug. 28, 1883
283,763	Delany, P. B.	Conductors	Aug. 28, 1883
283,764	Delany, P. B.	do	Aug. 28, 1883
283,806	O'Donel, I. M.	Telephonic telegraphs, systems	Aug. 28, 1883
283,807	Omensetter, E.	Underground lines	Aug. 28, 1883
283,912	McCarty, R. A. and Johnson, C. M.	Locomotion	Aug. 28, 1883
283,927	Scribner, C. E.	Telephonic telegraphs, systems	Aug. 28, 1883
283,944	Ahearn, T.	Telegraphs, fire	Aug. 28, 1883
283,983	Elison, T. A.	Lights, systems and appliances	Aug. 28, 1883
283,984	Edison, T. A.	do	Aug. 28, 1883
283,985	Edison, T. A.	do	Aug. 28, 1883
283,986	Edison, T. A.	do	Aug. 28, 1883
283,995	Gardanier, G. W.	Telegraphs, quadruplex	Aug. 28, 1883
284,003	Gray, E. and Pope, F. L.	Telephonic telegraphs, calls	Aug. 28, 1883
284,031	Lothrop, C. H.	Cut-outs, mechanical	Aug. 28, 1883
284,082	Spang, H. W.	Lightning-rods	Aug. 28, 1883
284,094	Van Hoesenbergh, H.	Conductors	Aug. 28, 1883
284,098	Waring, R. S.	do	Aug. 28, 1883
284,099	Waring, R. S.	Underground lines	Aug. 28, 1883
284,100	Waring, R. S.	do	Aug. 28, 1883
284,102	Warner, E. P.	Telephonic telegraphs, systems	Aug. 28, 1883
284,110	Zipernowsky, K. and Déri, M.	Magneto-electric	Aug. 28, 1883
284,114	Blodgett, A. D., Read, R. M. and Tirrell, J. P.	Indicators	Aug. 28, 1883
284,137	McElroy, W. J.	Conductors	Aug. 28, 1883
284,138	McElroy, W. J.	do	Aug. 28, 1883
284,139	McElroy, W. J.	Underground lines	Aug. 28, 1883
284,171	Boulton, W. H.	Lights, systems and appliances	Sept. 4, 1883
284,216	Lytle, H. B.	Connectors	Sept. 4, 1883
284,226	Patterson, W. R.	Conductors	Sept. 4, 1883
284,247	Sheehy, R. J.	Lights, systems and appliances	Sept. 4, 1883
284,255	Stockwell, L. W.	Motors	Sept. 4, 1883
284,277	Cleveland, W. B.	Magneto-electric	Sept. 4, 1883
284,288	Elphinstone, W. B. F. and Vincent, C. W.	do	Sept. 4, 1883
284,289	Fleming, J. A.	Conductors	Sept. 4, 1883
284,292	Gordon, J. E. H.	Magneto-electric	Sept. 4, 1883
284,297	Hartwell, N. W.	Telegraphs	Sept. 4, 1883
284,342	Tompkins, C. T.	Batteries, secondary	Sept. 4, 1883
284,343	Tribe, A.	do	Sept. 4, 1883
284,348	White, L. S.	Telephonic telegraphs, calls	Sept. 4, 1883
284,354	Bailey, H. L.	Relays and sounders	Sept. 4, 1883
284,355	Bailey, H. L.	Clocks	Sept. 4, 1883
284,357	Ball, C. E.	Magneto-electric	Sept. 4, 1883
284,365	Beidler, H. M.	Car-brakes	Sept. 4, 1883
284,382	Clarke, C. L.	Indicators	Sept. 4, 1883
284,409	Gatehouse, T. E.	Lights, incandescent	Sept. 4, 1883
284,413	Green, I. M. and Birch, J. P.	Underground lines	Sept. 4, 1883
284,420	Hedges, K. W.	Lights, systems and appliances	Sept. 4, 1883
284,423	Hollingshead, W. B.	Conductors	Sept. 4, 1883
284,425	Huck, C.	Conductors, anti-inductive	Sept. 4, 1883
284,426	Huck, C.	do	Sept. 4, 1883
284,480	Pope, F. L.	Bells	Sept. 4, 1883
284,481	Pope, F. L.	Telegraphs	Sept. 4, 1883
284,497	Sheehy, R. J.	Lights, arc	Sept. 4, 1883
284,498	Smith, G. and Taylor, T. F.	Telegraphs, duplex	Sept. 4, 1883
284,505	Spang, H. W.	Lights, systems and appliances	Sept. 4, 1883
284,508	Spurgeon, S. J.	Keys	Sept. 4, 1883
284,516	Van Hoesenbergh, H.	Gas-lighting	Sept. 4, 1883
284,527	Wilson, J. C.	Telegraphs, fire	Sept. 4, 1883
284,577	Starr, E. T. and E. E.	Batteries, secondary	Sept. 4, 1883
284,578	Sweet, D. F.	Clocks	Sept. 4, 1883
284,594	Barrett, J. P.	Telephonic telegraphs, systems	Sept. 11, 1883
284,595	Barrett, J. P.	do	Sept. 11, 1883
284,605	Burns, H. A.	Batteries, galvanic	Sept. 11, 1883
284,643	Lenderoth, W.	Underground lines	Sept. 11, 1883
284,655	O'Reilly, A. J.	do	Sept. 11, 1883
284,668	Putnam, T. A. B.	Conductors	Sept. 11, 1883

No.	NAME.	CLASS.	DATE.
284,669	Putnam, T. A. B.	Railway-signals	Sept. 11, 1883
284,670	Putnam, T. A. B.	do	Sept. 11, 1883
284,714	Bernstein, A.	Cut-outs, thermal	Sept. 11, 1883
284,715	Bernstein, A.	Circuit-closers	Sept. 11, 1883
284,755	Pidgin, C. F. and Leonard, F. H., jr.	Recorders	Sept. 11, 1883
284,779	Van Depoele, C. J.	Lights, systems and appliances	Sept. 11, 1883
284,784	Warren, H. J. and Packard, H. F.	Gas-lighting	Sept. 11, 1883
284,794	Allen, S. M.	Underground lines	Sept. 11, 1883
284,805	Brewtnall, A. W.	Lights, systems and appliances	Sept. 11, 1883
284,808	Brown, E. H.	Alarms, burglar	Sept. 11, 1883
284,840	Hall, A. W.	Railway-signals	Sept. 11, 1883
284,841	Hall, A. W.	do	Sept. 11, 1883
284,842	Hall, A. W.	do	Sept. 11, 1883
284,854	Hyde, J. B.	Underground lines	Sept. 11, 1883
284,855	Hyde, J. B.	do	Sept. 11, 1883
284,862	Lackersteen, M. H.	Applications, general	Sept. 11, 1883
284,878	McCormick, D. A.	Annunciators	Sept. 11, 1883
284,908	Scribner, C. E.	Telephonic telegraphs, systems	Sept. 11, 1883
284,909	Scribner, C. E.	do	Sept. 11, 1883
284,915	Somers, G. E.	Connectors	Sept. 11, 1883
284,939	Bain, F.	Lights, arc	Sept. 11, 1883
284,959	Halkyard, W.	Conductors	Sept. 11, 1883
284,970	Moore, F.	do	Sept. 11, 1883
284,999	Bernstein, A.	Magneto-electric	Sept. 18, 1883
285,004	Bowen, W. J.	Telephonic telegraphs, mechanical	Sept. 18, 1883
285,008	Burke, J. T.	Applications, tools and machines	Sept. 18, 1883
285,027	Gray, J.	Magneto-electric	Sept. 18, 1883
285,066	Peckham, F. H., jr.	Batteries, galvanic	Sept. 18, 1883
285,076	Rogers, E.	Telegraphs, fire	Sept. 18, 1883
285,088	Van Wagenen, H. G.	Clocks	Sept. 18, 1883
285,102	Berliner, E.	Telephonic telegraphs, electric	Sept. 18, 1883
285,107	Bucker, R.	Lights, arc	Sept. 18, 1883
285,245	Fenn, J. E.	Telephonic telegraphs, systems	Sept. 18, 1883
285,249	Fitch, F. K.	Magneto-electric	Sept. 18, 1883
285,267	How, W. S.	Underground lines	Sept. 18, 1883
285,269	Huston, H. E.	Telephonic telegraphs, mechanical	Sept. 18, 1883
285,327	Weaver, A. S.	Conductors	Sept. 18, 1883
285,334	Wiswall, A.	Alarms, burglar	Sept. 18, 1883
285,342	Cary, J. H.	Telephonic telegraphs, calls	Sept. 18, 1883
285,353	Finney, J. R.	Locomotion	Sept. 18, 1883
285,445	Tibbits, J. B.	Lights, arc	Sept. 25, 1883
285,451	Weston, E.	do	Sept. 25, 1883
285,457	Brush, C. F.	Magneto-electric	Sept. 25, 1883
285,459	Buell, C. E.	Telegraphs, fire	Sept. 25, 1883
285,494	Le Grande, W. W.	Conductors	Sept. 25, 1883
285,523	Tanner, W. J.	Separators	Sept. 25, 1883
285,527	Van Depoele, C. J.	Regulators	Sept. 25, 1883
285,528	Van Depoele, C. J.	do	Sept. 25, 1883
285,529	Van Depoele, C. J.	Batteries, secondary	Sept. 25, 1883
285,547	Ball, C. E.	Motors	Sept. 25, 1883
285,548	Ball, C. E.	Magneto-electric	Sept. 25, 1883
285,549	Ball, C. E.	do	Sept. 25, 1883
285,572	Clarke, C. L.	Meters	Sept. 25, 1883
285,589	Doyle, W. L.	Railway-signals	Sept. 25, 1883
285,602	Farmer, M. G.	Batteries, secondary, applications	Sept. 25, 1883
285,615	Hannay, J. B.	Incrustation	Sept. 25, 1883
285,657	Orvis, O. D. and Adams, N. B.	Underground lines	Sept. 25, 1883
285,670	Phelps, G. M., jr.	Telephonic telegraphs, systems	Sept. 25, 1883
285,672	Phillips, H. O.	Conductors	Sept. 25, 1883
285,673	Phillips, H. O.	do	Sept. 25, 1883
285,676	Prentiss, F. H. and Tilden, J. A.	Thermostats	Sept. 25, 1883
285,682	Ronsseau, D.	Gas-lighting	Sept. 25, 1883
285,691	Sheehy, R. J.	Magneto-electric	Sept. 25, 1883
285,709	Van Hoevenbergh, H.	Telegraphs, printing	Sept. 25, 1883
285,710	Van Hoevenbergh, H.	do	Sept. 25, 1883
285,714	Weston, E.	Batteries, secondary, applications	Sept. 25, 1883
285,715	Weston, E.	Lights, arc	Sept. 25, 1883
285,778	Adams, W.	Rheostats	Oct. 2, 1883
285,784	Bartlett, G. P.	Lights, incandescent	Oct. 2, 1883
285,799	Conly, M. S.	Magneto-electric, hand-machines	Oct. 2, 1883
285,805	Fiske, B. A.	Telegraphs, dial	Oct. 2, 1883
285,807	Fox, St. G. L.	Batteries, secondary	Oct. 2, 1883
285,852	Stilwell, B.	Therapeutics, electrodes	Oct. 2, 1883
285,853	Stilwell, R.	do	Oct. 2, 1883
285,854	Stilwell, R.	do	Oct. 2, 1883
285,857	Van Depoele, C. J.	Motors	Oct. 2, 1883
285,858	Van Depoele, C. J.	Locomotion	Oct. 2, 1883

No.	NAME.	CLASS.	DATE.
285,859	Van Depoele, C. J.	Lights, systems and appliances	Oct. 2, 1883
285,944	Applegate, D. H.	Railway-signals	Oct. 2, 1883
285,977	Dennis, J. W.	Therapeutics, body-wear	Oct. 2, 1883
285,983	Finch, R. S.	Telegraphs, fire	Oct. 2, 1883
286,030	Marcus, S.	Applications, tools and machines	Oct. 2, 1883
286,035	Mayall, T. J.	Conductors	Oct. 2, 1883
286,036	Mayall, T. J.	do	Oct. 2, 1883
286,086	Spang, H. W.	Lightning-rods	Oct. 2, 1883
286,093	Van Depoele, C. J.	Lights, arc	Oct. 2, 1883
286,094	Van Depoele, C. J.	do	Oct. 2, 1883
286,100	Wiswall, A.	Circuit-closers	Oct. 2, 1883
286,107	Athearn, W. E.	Repeaters	Oct. 2, 1883
286,144	Moffatt, R. R.	Lights, arc	Oct. 2, 1883
286,158	Tupper, J. A.	Lights, systems and appliances	Oct. 2, 1883
286,181	Crane, A. S.	Clocks	Oct. 9, 1883
286,208	Létrange, L.	Applications, general	Oct. 9, 1883
286,220	Phillips, H. O.	Conductors	Oct. 9, 1883
286,241	Van Choate, S. F.	Magneto-electric	Oct. 9, 1883
286,242	Van Choate, S. F.	do	Oct. 9, 1883
286,247	Wolcott, T.	do	Oct. 9, 1883
286,259	Brush, C. F.	Batteries, secondary	Oct. 9, 1883
286,268	Cowell, E. R. E.	Telegraphs, railway-car	Oct. 9, 1883
286,273	Delany, P. B.	Telegraphs, multiplex	Oct. 9, 1883
286,274	Delany, P. B.	do	Oct. 9, 1883
286,275	Delany, P. B.	do	Oct. 9, 1883
286,276	Delany, P. B.	do	Oct. 9, 1883
286,277	Delany, P. B.	do	Oct. 9, 1883
286,278	Delany, P. B.	do	Oct. 9, 1883
286,279	Delany, P. B.	Telegraphs, duplex	Oct. 9, 1883
286,280	Delany, P. B.	do	Oct. 9, 1883
286,281	Delany, P. B.	Telegraphs, multiplex	Oct. 9, 1883
286,282	Delany, P. B.	Telegraphs	Oct. 9, 1883
286,288	Frasch, H.	Applications, general	Oct. 9, 1883
286,325	Mather, R. H.	Regulators	Oct. 9, 1883
286,350	Vail, J. H.	Lights, incandescent	Oct. 9, 1883
286,359	Williams, W. H.	Electrolysis	Oct. 9, 1883
286,393	Copeland, F. A.	Telegraphs, fire	Oct. 9, 1883
286,397	Devlin, J. A.	Lights, systems and appliances	Oct. 9, 1883
286,414	Fuller, G. W.	Magneto-electric	Oct. 9, 1883
286,415	Fuller, G. W.	do	Oct. 9, 1883
286,416	Fuller, G. W.	do	Oct. 9, 1883
286,437	Hirley, J. V.	Conductors	Oct. 9, 1883
286,445	Johnson, W. S.	Meters	Oct. 9, 1883
286,481	Parker, T. H.	Gas-lighting	Oct. 9, 1883
286,497	Stabler, J. P.	Magneto-electric	Oct. 9, 1883
286,518	Wilkins, G. A.	Telephonic telegraphs, systems	Oct. 9, 1883
286,529	Buell, C. E.	Annunciators	Oct. 9, 1883
286,566	Wiswall, A.	Alarms, burglar	Oct. 9, 1883
286,571	Allaire, C. B. and Johnson, C. M.	Locomotion	Oct. 16, 1883
286,577	Bernstein, A.	Anti-inductive devices	Oct. 16, 1883
286,581	Blake, J. E. and Hall, C. A.	Alarms	Oct. 16, 1883
286,595	Durant, G. F.	Telephonic telegraphs, systems	Oct. 16, 1883
286,612	Houston, E. J.	Magneto-electric	Oct. 16, 1883
286,667	Wirsching, A.	Telegraphs, printing	Oct. 16, 1883
286,680	Botts, B. N.	Telephonic telegraphs, mechanical	Oct. 16, 1883
286,681	Bowen, W. J.	Insulators	Oct. 16, 1883
286,698	Heuley, W. T.	Conductors	Oct. 16, 1883
286,722	Martin, M.	Indicators	Oct. 16, 1883
286,737	Shepherd, G. R.	Telephonic telegraphs, magnetic	Oct. 16, 1883
286,796	Egleston, T.	Conductors	Oct. 16, 1883
286,801	Fiske, B. A. and Mott, S. D.	Insulators	Oct. 16, 1883
286,809	Haid, A.	Batteries, galvanic	Oct. 16, 1883
286,829	Kohmescher, J. H.	Conductors	Oct. 16, 1883
286,833	Levy, M.	Regulators	Oct. 16, 1883
286,834	Levy, M.	do	Oct. 16, 1883
286,841	Parkhurst, E. B.	do	Oct. 16, 1883
286,861	Speed, F. M.	Underground lines	Oct. 16, 1883
286,867	Thompson, B.	Telegraphs, duplex	Oct. 16, 1883
286,873	Van Choate, S. F.	Motors	Oct. 16, 1883
286,875	Waite, H. E.	Telephonic telegraphs, magnetic	Oct. 16, 1883
286,876	Waite, H. E.	do	Oct. 16, 1883
286,888	Wiswall, A.	Alarms, burglar	Oct. 16, 1883
286,916	Fitz Gerald, D. G.	Lights, incandescent	Oct. 16, 1883
286,917	Fraser, A. C.	Relays and sonnders	Oct. 16, 1883
286,923	Haskins, C. D.	Telephonic telegraphs, electric	Oct. 16, 1883
286,925	Hauss, D. J., McNamara, T. E. and Zerbe, J. S.	Lights, arc	Oct. 16, 1883
286,937	Martiu, J. F.	Conductors	Oct. 16, 1883

No.	NAME.	CLASS.	DATE.
286,938	Martin, J. F.	Underground lines	Oct. 16, 1883
286,939	Martin, J. F.	do	Oct. 16, 1883
286,940	Martin, J. F.	do	Oct. 16, 1883
286,941	Martin, J. F.	do	Oct. 16, 1883
286,942	Martin, J. F.	do	Oct. 16, 1883
286,943	Martin, J. F.	do	Oct. 16, 1883
286,944	Martin, J. F.	do	Oct. 16, 1883
286,945	Martin, J. F.	do	Oct. 16, 1883
286,946	Martin, J. F.	Conductors	Oct. 16, 1883
286,947	Martin, J. F.	Underground lines	Oct. 16, 1883
286,948	Martin, J. F.	Conductors, anti-inductive	Oct. 16, 1883
286,949	Martin, J. F.	do	Oct. 16, 1883
286,950	Martin, J. F.	Underground lines	Oct. 16, 1883
286,953	Moses, O. A.	Lights, arc	Oct. 16, 1883
286,955	O'Sullivan, M. J.	Relays and sounders	Oct. 16, 1883
286,963	Reed, T. S.	Conductors	Oct. 16, 1883
286,970	Sperry, E. A.	Annunciators	Oct. 16, 1883
286,977	Van Hoevenbergh, H.	Telegraphs, printing	Oct. 16, 1883
286,985	Woolley, L. G.	Magneto-electric	Oct. 16, 1883
287,015	Gardner, W. F.	Clocks	Oct. 23, 1883
287,040	McCoy, J. A.	Lights, systems and appliances	Oct. 23, 1883
287,067	Tibbits, J. B.	Lights, arc	Oct. 23, 1883
287,089	Bendix, J.	Applications, general	Oct. 23, 1883
287,092	Brennan, J. W. and Rousseau, N.	Conductors	Oct. 23, 1883
287,096	Carr, J. E.	Therapeutics, body-wear	Oct. 23, 1883
287,111	Drawbaugh, D.	Telephonic telegraphs, relays and repeaters	Oct. 23, 1883
287,146	Martin, J. F.	Conductors	Oct. 23, 1883
287,166	Reynolds, C. C.	Telephonic telegraphs, electric	Oct. 23, 1883
287,169	Rogers, J. H.	do	Oct. 23, 1883
287,170	Roovers, A. and A.	Therapeutics, body-wear	Oct. 23, 1883
287,221	Brasher, T. M.	Exploding	Oct. 23, 1883
287,236	Clark, E.	Conductors	Oct. 23, 1883
287,237	Clark, E.	Underground lines	Oct. 23, 1883
287,265	Field, S. D.	Telegraphs, printing	Oct. 23, 1883
287,266	Field, S. D.	do	Oct. 23, 1883
287,267	Field, S. D.	do	Oct. 23, 1883
287,286	Hewitt, W.	Lightning-rods	Oct. 23, 1883
287,288	Jacob, F.	Conductors	Oct. 23, 1883
287,291	Johnson, A. M.	Recorders	Oct. 23, 1883
287,300	Lane, T. W.	Telephonic telegraphs, systems	Oct. 23, 1883
287,301	Lane, T. W.	do	Oct. 23, 1883
287,313	Perkins, C. G.	Lights, incandescent	Oct. 23, 1883
287,314	Perkins, C. G.	do	Oct. 23, 1883
287,315	Perkins, C. G.	Lights, systems and appliances	Oct. 23, 1883
287,316	Perkins, C. G.	do	Oct. 23, 1883
287,317	Perkins, C. G.	do	Oct. 23, 1883
287,318	Perkins, C. G.	do	Oct. 23, 1883
287,319	Perkins, C. G.	Lights, incandescent	Oct. 23, 1883
287,320	Perkins, C. G.	Cut-outs, thermal	Oct. 23, 1883
287,321	Perkins, C. G.	Lights, systems and appliances	Oct. 23, 1883
287,322	Perkins, C. G.	do	Oct. 23, 1883
287,323	Perkins, C. G.	Lights, incandescent	Oct. 23, 1883
287,343	Van Depoele, C. J.	Magneto-electric	Oct. 23, 1883
287,344	Van Depoele, C. J.	Lights, arc	Oct. 23, 1883
287,345	Van Depoele, C. J.	Regulators	Oct. 23, 1883
287,346	Van Depoele, C. J.	Conductors	Oct. 23, 1883
287,347	Van Depoele, C. J.	Lights, systems and appliances	Oct. 23, 1883
287,356	Anders, G. L.	Telephonic telegraphs, systems	Oct. 23, 1883
287,380	Hughes, C. T.	Heaters	Oct. 23, 1883
287,401	Ahearn, T.	Recorders	Oct. 30, 1883
287,446	Le Grande, W. W.	Railway-signals	Oct. 30, 1883
287,449	Maloney, J. A.	Telephonic telegraphs, relays and repeaters	Oct. 30, 1883
287,466	Pottinger, T. J.	Railway-signals	Oct. 30, 1883
287,490	Wilson, E. L.	Telephonic telegraphs, electric	Oct. 30, 1883
287,495	Baron, E.	Applications, general	Oct. 30, 1883
287,501	Bradley, C. S.	Meters	Oct. 30, 1883
287,509	Du Bois, J. S.	Underground lines	Oct. 30, 1883
287,511	Edison, T. A.	Regulators	Oct. 30, 1883
287,512	Edison, T. A.	Magneto-electric	Oct. 30, 1883
287,513	Edison, T. A.	do	Oct. 30, 1883
287,514	Edison, T. A.	do	Oct. 30, 1883
287,515	Edison, T. A.	Lights, systems and appliances	Oct. 30, 1883
287,516	Edison, T. A.	Magneto-electric	Oct. 30, 1883
287,517	Edison, T. A.	Lights, systems and appliances	Oct. 30, 1883
287,518	Edison, T. A.	Lights, incandescent	Oct. 30, 1883
287,519	Edison, T. A.	do	Oct. 30, 1883
287,520	Edison, T. A.	do	Oct. 30, 1883

No.	NAME.	CLASS.	DATE.
287,521	Edison, T. A	Magneto-electric	Oct. 30, 1883
287,522	Edison, T. A	Lights, systems and appliances	Oct. 30, 1883
287,523	Edison, T. A	do	Oct. 30, 1883
287,524	Edison, T. A	Regulators	Oct. 30, 1883
287,525	Edison, T. A. and Clarke, C. L	Lights, systems and appliances	Oct. 30, 1883
287,532	Goddard, C	Underground lines	Oct. 30, 1883
287,533	Goddard, C	do	Oct. 30, 1883
287,565	Murdock, G. J	Regulators	Oct. 30, 1883
287,608	Bain, F	Magneto-electric	Oct. 30, 1883
287,609	Bain, F	do	Oct. 30, 1883
287,610	Bain, F	do	Oct. 30, 1883
287,611	Bain, F	do	Oct. 30, 1883
287,617	Brainerd, H. C	Applications, general	Oct. 30, 1883
287,618	Brigel, L. A	Circuit-closers	Oct. 30, 1883
287,641	Delafield, A. F	Batteries, galvanic	Oct. 30, 1883
287,647	Dyer, J. W	Lightning-arresters	Oct. 30, 1883
287,649	Enos, J. A	Recorders	Oct. 30, 1883
287,654	Frecman, W. P	Indicators	Oct. 30, 1883
287,661	Giles, J. E	Magneto-electric	Oct. 30, 1883
287,664	Gordon, W. C	Annunciators	Oct. 30, 1883
287,678	Holbon, R	Magneto-electric	Oct. 30, 1883
287,710	Oram, J. M	Telephonic telegraphs, systems	Oct. 30, 1883
287,742	Waite, H. E	Telephonic telegraphs, magnetic	Oct. 30, 1883
287,743	Waite, H. E. and Bartlett, S. H	do	Oct. 30, 1883
287,757	Dyer, R. N	Telegraphs, fire	Oct. 30, 1883
287,758	Dyer, R. N. and Seely, H. W	Heaters	Oct. 30, 1883
287,766	McGill, G. W	Conductors	Oct. 30, 1883
287,773	Nungesser, P. P	Magneto-electric	Oct. 30, 1883
287,774	Nungesser, P. P	do	Oct. 30, 1883
287,775	Peirce, W. E	Magnetic-locks	Oct. 30, 1883
287,776	Phillips, H. O	Conductors	Oct. 30, 1883
287,800	Brackett, C. F	Magneto-electric	Nov. 6, 1883
287,812	Felton, L. E	Batteries, galvanic	Nov. 6, 1883
287,830	Hinsdale, C. C	Insulators	Nov. 6, 1883
287,855	Parker, L. C	Applications, tools and machines	Nov. 6, 1883
287,873	Scribner, C. E	Magneto-electric, hand-machines	Nov. 6, 1883
287,875	Shepard, C. S	Cut-outs, mechanical	Nov. 6, 1883
287,881	Smith, C. D. F	Lights, systems and appliances	Nov. 6, 1883
287,896	Bartlett, S. H. and Waite, H. E	Telephonic telegraphs, magnetic	Nov. 6, 1883
287,897	Baldwin, C. W	Applications, tools and machines	Nov. 6, 1883
287,914	Dement, M. H	Transmitters	Nov. 6, 1883
287,929	Hewitt, W	Lightning-rods	Nov. 6, 1883
287,957	Osborne, J. W	Applications, general	Nov. 6, 1883
288,002	Brown, F. W	Underground lines	Nov. 6, 1883
288,017	Clay, H	Telephonic telegraphs, electric	Nov. 6, 1883
288,033	Detrick, C	Underground lines	Nov. 6, 1883
288,042	Elphinstone, W. B. F. and Vincent, C. W	Magneto-electric	Nov. 6, 1883
288,051	Giles, J. E	do	Nov. 6, 1883
288,068	Kuhnmueller, J	Separators	Nov. 6, 1883
288,089	Mather, T. W	Telephonic telegraphs, calls	Nov. 6, 1883
288,102	Nickum, G. S	Applications, tools and machines	Nov. 6, 1883
288,107	Pearce, F	Telegraphs, fire	Nov. 6, 1883
288,132	Stanard, R. T	Conductors	Nov. 6, 1883
288,157	Baxter, W., jr.	Lights, arc	Nov. 6, 1883
288,175	Hamblet, J	Clocks	Nov. 6, 1883
288,183	Ohly, C. H	Telephonic telegraphs, systems	Nov. 6, 1883
288,202	Bowen, W. J	Bells	Nov. 13, 1883
288,215	Dolbear, A. E	Telephonic telegraphs, electric	Nov. 13, 1883
288,217	Edmunds, H., jr	Lights, incandescent	Nov. 13, 1883
288,218	Edmunds, H., jr	do	Nov. 13, 1883
288,310	Cobb, H. B.	Underground lines	Nov. 13, 1883
288,311	Cobb, H. B.	do	Nov. 13, 1883
288,315	De Ferranti, S. Z. and Thompson, A	Regulators	Nov. 13, 1883
288,316	De Ferranti, S. Z. and Thompson, A	Magneto-electric	Nov. 13, 1883
288,318	Edison, T. A	Regulators	Nov. 13, 1883
288,320	Eckert, W. H., Seely, J. A. and Eckert, E. A	Telephonic telegraphs, systems	Nov. 13, 1883
288,346	Knowles, E. R	Lights, arc	Nov. 13, 1883
288,348	Lane, F	Railway-signals	Nov. 13, 1883
288,356	Molera, E. J	Locomotion	Nov. 13, 1883
288,360	Oakman, S	Insulators	Nov. 13, 1883
288,366	Rogers, J. H	Telephonic telegraphs, mechanical	Nov. 13, 1883
288,393	Arnold, C. R	Regulators	Nov. 13, 1883
288,395	Bain, F	Applications, tools and machines	Nov. 13, 1883
288,402	Borodoulin, N	Indicators	Nov. 13, 1883
288,443	Johnson, L	Conductors	Nov. 13, 1883
288,449	Kinsman, J. H	Telephonic telegraphs, calls	Nov. 13, 1883
288,454	Kruesi, J	Conductors	Nov. 13, 1883

No.	NAME.	CLASS.	DATE.
288,480	Phelps, W. P.	Railway-signals	Nov. 13, 1883
288,496	Schlaefli, J. P. A.	Clocks	Nov. 13, 1883
288,513	Thomas, W. M.	Locomotion	Nov. 13, 1883
288,536	Wilson, J. C. and Davis, M. G.	Telegraphs, fire	Nov. 13, 1883
288,555	Dryer, B. A.	Underground lines	Nov. 13, 1883
288,556	Dummer, E.	Railway-signals	Nov. 13, 1883
288,570	Hess, A. T.	Telegraphs, fire	Nov. 13, 1883
288,609	Anderson, H.	Keys	Nov. 20, 1883
288,623	Crane, A. S.	Clocks	Nov. 20, 1883
288,627	Eckert, W. H. and Seely, J. A.	Telephonic telegraphs, systems	Nov. 20, 1883
288,629	Gilman, C. C.	Underground lines	Nov. 20, 1883
288,677	Stevenson, T. S.	Applications, tools and machines	Nov. 20, 1883
288,682	Van Depoele, C. J.	Cut-outs, thermal	Nov. 20, 1883
288,691	Carty, J. J.	Telephonic telegraphs, calls	Nov. 20, 1883
288,786	Field, S. D.	Telegraphs, dynamo	Nov. 20, 1883
288,790	Giles, J. E.	Underground lines	Nov. 20, 1883
288,795	Hamon, A. H.	Conductors	Nov. 20, 1883
288,818	Kimball, A. S.	Magneto-electric	Nov. 20, 1883
288,826	McConnell, J. T.	Lights, arc	Nov. 20, 1883
288,829	McTighe, T. J.	Magneto-electric	Nov. 20, 1883
288,830	McTighe, T. J. and McConnell, J. T.	do	Nov. 20, 1883
288,831	McTighe, T. J. and McConnell, J. T.	Lights, arc	Nov. 20, 1883
288,835	Miller, A. G.	Telephonic telegraphs, mechanical	Nov. 20, 1883
288,881	Smith, W. C.	Relays and sounders	Nov. 20, 1883
288,888	Stroudley, W. and Houghton, E. J.	Batteries, secondary, applications	Nov. 20, 1883
288,906	Willson, R. W.	Clocks	Nov. 20, 1883
288,908	Wright, C. D. and Fisher, C. A.	Telephonic telegraphs, systems	Nov. 20, 1883
288,909	Wright, C. D. and Fisher, C. A.	do	Nov. 20, 1883
288,915	Beeman, J. S.	Magneto-electric	Nov. 20, 1883
288,916	Bergmann, S.	Batteries, galvanic	Nov. 20, 1883
288,963	Beeman, J. S., Taylor, W. and King, F.	Regulators	Nov. 20, 1883
288,971	Benson, G. T.	Lights, incandescent	Nov. 27, 1883
289,008	Long, M. W.	Railway-signals	Nov. 27, 1883
289,076	Dodge, T. H.	Lightning-rods	Nov. 27, 1883
289,077	Doolittle, G. and Stanley, H. D.	Conductors	Nov. 27, 1883
289,092	Halkyard, W.	do	Nov. 27, 1883
289,137	Putnam, T. A. B.	Railway-signals	Nov. 27, 1883
289,164	Strohm, S. D.	Underground lines	Nov. 27, 1883
289,165	Strohm, S. D.	do	Nov. 27, 1883
289,166	Strohm, S. D.	do	Nov. 27, 1883
289,173	Taylor, T. F.	Telegraphs, automatic	Nov. 27, 1883
289,178	Tregurtha, J.	Telephonic telegraphs, systems	Nov. 27, 1883
289,179	Tregurtha, J.	do	Nov. 27, 1883
289,180	Tregurtha, J.	do	Nov. 27, 1883
289,197	Weston, E.	Transmission of power	Nov. 27, 1883
289,198	Weston, E.	do	Nov. 27, 1883
289,199	Weston, E.	Lights, systems and appliances	Nov. 27, 1883
289,200	Weston, E.	Magneto-electric	Nov. 27, 1883
289,205	Anderson, R.	Telegraphs, automatic	Nov. 27, 1883
289,233	Corwin, W. S.	Annunciators	Nov. 27, 1883
289,285	Maloney, J. A.	Relays and sounders	Nov. 27, 1883
289,301	Nicholson, H. C.	Telegraphs, quadruplex	Nov. 27, 1883
289,309	Robertson, J. H.	Telephonic telegraphs, magnetic	Nov. 27, 1883
289,320	Suit, S. T.	Telegraph-poles	Nov. 27, 1883
289,321	Tregurtha, J.	Telephonic telegraphs, systems	Nov. 27, 1883
289,324	Weston, E.	Regulators	Nov. 27, 1883
289,325	Weston, E.	do	Nov. 27, 1883
289,326	Weston, E.	do	Nov. 27, 1883
289,327	Weston, E.	Lights, systems and appliances	Nov. 27, 1883
289,328	Weston, E. and Curtis, L. E.	Batteries, secondary, applications	Nov. 27, 1883
289,333	Loring, C. T.	Telephonic telegraphs, systems	Nov. 27, 1883
289,386	Case, W. E.	Batteries, secondary	Dec. 4, 1883
289,411	Happersberger, F.	Annunciators	Dec. 4, 1883
289,425	Levison, W. G.	Lights, systems and appliances	Dec. 4, 1883
289,449	Rousseau, N.	Insulators	Dec. 4, 1883
289,456	Sheehy, R. J.	Lights, incandescent	Dec. 4, 1883
289,470	Tomney, J.	Alarms, burglar	Dec. 4, 1883
289,471	Tomney, J.	do	Dec. 4, 1883
289,539	Jackson, C. A.	Telephonic telegraphs, systems	Dec. 4, 1883
289,540	Jackson, C. A.	Motors	Dec. 4, 1883
289,541	Jackson, C. A.	do	Dec. 4, 1883
289,545	Mac Eachran, D.	Separators	Dec. 4, 1883
289,552	Palmer, A. C.	Annunciators	Dec. 4, 1883
289,575	Shaw, T.	Conductors	Dec. 4, 1883
289,580	Thomson, E.	Lights, arc	Dec. 4, 1883
289,590	White, N. S.	Lights, incandescent	Dec. 4, 1883
289,620	Clark, J. W.	Telephonic telegraphs, mechanical	Dec. 4, 1883

No.	NAME.	CLASS.	DATE.
289,629	Dyer, J. W.	Lightning-arresters	Dec. 4, 1883
289,630	Dyer, J. W.	Cut-outs, electro-magnetic	Dec. 4, 1883
289,631	Eaton, A. K.	Batteries, thermal	Dec. 4, 1883
289,642	Giles, C. K.	Applications, general	Dec. 4, 1883
289,649	Hardie, J. W.	do	Dec. 4, 1883
289,665	Lazelle, J. L.	Alarms, burglar	Dec. 4, 1883
289,693	Nash, L. II.	Applications, tools and machines	Dec. 4, 1883
289,720	Shields, J.	Applications, general	Dec. 4, 1883
289,725	Tainter, S.	Conductors	Dec. 4, 1883
289,768	Freund, G.	Exploding	Dec. 4, 1883
289,795	Anderson, R. C.	Batteries, galvanic	Dec. 11, 1883
289,823	Freeman, W. P.	Lights, arc	Dec. 11, 1883
289,827	Gassett, O.	Railway-signals	Dec. 11, 1883
289,834	Herzog, F. B.	Telephonic telegraphs, calls	Dec. 11, 1883
289,837	Holzer, W.	Lights, systems and appliances	Dec. 11, 1883
289,838	Holzer, W.	do	Dec. 11, 1883
289,862	Sheehy, R. J.	Meters	Dec. 11, 1883
289,869	Spelman, P. H.	Telegraphs, fire	Dec. 11, 1883
289,890	Chambers, J. C.	Conductors	Dec. 11, 1883
289,891	Chambers, J. C.	Underground lines	Dec. 11, 1883
289,895	Daft, L.	Locomotion	Dec. 11, 1883
289,896	Daft, L.	Car-brakes	Dec. 11, 1883
289,897	Daft, L.	Locomotion	Dec. 11, 1883
289,918	Kühmaier, F.	Motors	Dec. 11, 1883
289,944	Webb, G. B.	Clocks	Dec. 11, 1883
289,966	Bonilly, A.	Exploding	Dec. 11, 1883
290,025	Freeman, W. P.	Regulators	Dec. 11, 1883
290,057	Hyde, J. B.	Conductors	Dec. 11, 1883
290,058	Hyde, J. B.	do	Dec. 11, 1883
290,091	Olmsted, J.	Magneto-electric	Dec. 11, 1883
290,100	Page, H. W. and Carley, II.	Indicators	Dec. 11, 1883
290,121	Shaw, W. A.	Conductors	Dec. 11, 1883
290,122	Shaw, W. A.	do	Dec. 11, 1883
290,149	Unger, J. and Eisele, S. O.	Batteries, galvanic	Dec. 11, 1883
290,150	Unger, J. and Eisele, S. O.	Lights, arc	Dec. 11, 1883
290,152	Vance, S. B. II. and Hinds, C. H.	Lights, systems and appliances	Dec. 11, 1883
290,182	Hastings, E. B.	Separators	Dec. 11, 1883
290,199	Ball, C. M.	Magneto-electric	Dec. 18, 1883
290,209	Comstock, W. P., jr.	Railway-signals	Dec. 18, 1883
290,259	Molloy, B. C.	Separators	Dec. 18, 1883
290,292	Van Hovenbergh, H.	Lights, arc	Dec. 18, 1883
290,302	Wilson, J. C.	Telegraphs, fire	Dec. 18, 1883
290,307	Allen, C. E.	Telephonic telegraphs, systems	Dec. 18, 1883
290,338	Maxwell, G. S.	Railway-signals	Dec. 18, 1883
290,350	Paine, H. M.	Magneto-electric	Dec. 18, 1883
290,375	Waring, R. S.	Underground lines	Dec. 18, 1883
290,406	Edmunds, H., jr.	Lights, systems and appliances	Dec. 18, 1883
290,407	Edmunds, H., jr.	do	Dec. 18, 1883
290,412	Giles, J. E.	Regulators	Dec. 18, 1883
290,413	Goebel, C. H.	Underground lines	Dec. 18, 1883
290,414	Goebel, C. H.	do	Dec. 18, 1883
290,415	Goebel, C. H.	do	Dec. 18, 1883
290,416	Goebel, C. H.	do	Dec. 18, 1883
290,441	Lüngen, A.	Gas-lighting	Dec. 18, 1883
290,467	Perkins, C. G.	Lights, incandescent	Dec. 18, 1883
290,468	Perkins, C. G.	Batteries, secondary, applications	Dec. 18, 1883
290,469	Perkins, C. G.	Lights, incandescent	Dec. 18, 1883
290,470	Perkins, C. G.	Batteries, secondary, applications	Dec. 18, 1883
290,495	Than, H.	Bells	Dec. 18, 1883
290,550	Du Shane, J.	Magneto-electric	Dec. 18, 1883
290,551	Easton, J. W.	do	Dec. 18, 1883
290,556	Field, S. D.	Telegraphs, printing	Dec. 18, 1883
290,557	Field, S. D.	do	Dec. 18, 1883
290,558	Finn, J. L.	Lightning-rods	Dec. 18, 1883
290,602	Pattysen, W. D. C.	Telegraphs, railway-car	Dec. 18, 1883
290,611	Taylor, W. and King, F.	Batteries, secondary	Dec. 18, 1883
290,613	Vansize, W. B. and Buckingham, C. L.	Telegraphs, printing	Dec. 18, 1883
290,635	Field, S. D.	do	Dec. 18, 1883
290,654	Velloni, G. G. L.	Batteries, galvanic	Dec. 18, 1883
290,689	Kampfe, R.	Car-brakes	Dec. 25, 1883
290,709	Ross, J. S.	Magneto-electric, hand-machines	Dec. 25, 1883
290,730	Bartelous, J. V. M.	Telephonic telegraphs, systems	Dec. 25, 1883
290,732	Bogart, A. L.	Cut-outs, electro-magnetic	Dec. 25, 1883
290,752	Davis, B. A.	Telegraph-poles	Dec. 25, 1883
290,753	Delany, P. B.	Conductors	Dec. 25, 1883
290,769	Gray, G.	Conductors, anti-inductive	Dec. 25, 1883
290,836	Beckwith, W. C.	Lights, arc	Dec. 25, 1883

No.	NAME.	CLASS.	DATE.
290,844	Bowman, C. M	Connectors	Dec. 25, 1883
290,845	Breckenridge, H. W	Switches	Dec. 25, 1883
290,853	Campbell, H. F	Conductors, anti-inductive	Dec. 25, 1883
290,854	Campbell, H. F	do	Dec. 25, 1883
290,873	Farmer, M. G	Batteries, secondary, applications	Dec. 25, 1883
290,881	Hyde, J. B	Conductors	Dec. 25, 1883
290,894	Kettell, J. F	Clocks	Dec. 25, 1883
290,898	Lockwood, T. D	Telephonic telegraphs, relays and repeaters	Dec. 25, 1883
290,922	Pope, F. L	Insulators	Dec. 25, 1883
290,925	Rew, H. C	Lights, systems and appliances	Dec. 25, 1883
290,926	Rew, H. C	Applications, general	Dec. 25, 1883
290,927	Rew, H. C	do	Dec. 25, 1883
290,930	Rew, H. C	do	Dec. 25, 1883
290,941	Starr, E. T	Batteries, secondary	Dec. 25, 1883
290,942	Starr, E. T	do	Dec. 25, 1883
290,943	Starr, E. T	do	Dec. 25, 1883
290,949	Wallace, W	Electrolysis	Dec. 25, 1883
290,971	Campbell, H. F	Conductors, anti-inductive	Dec. 25, 1883
290,978	Drawbaugh, D	Telephonic telegraphs, magnetic	Dec. 25, 1883
290,979	Drawbaugh, D	do	Dec. 25, 1883
290,980	Drawbaugh, D	Telephonic telegraphs, electric	Dec. 25, 1883
291,063	Leitch, A. E	Annunciators	Jan. 1, 1884
291,094	Selden, C	Telephonic telegraphs, mechanical	Jan. 1, 1884
291,095	Selden, C	Railway-signals	Jan. 1, 1884
291,096	Selden, C	Telegraphs, duplex	Jan. 1, 1884
291,097	Selden, C	do	Jan. 1, 1884
291,141	Bradley, C. S	Regulators	Jan. 1, 1884
291,170	Edmunds, H., jr	Conductors	Jan. 1, 1884
291,171	Edmunds, H., jr	Lights, incandescent	Jan. 1, 1884
291,209	Lever, C	Regulators	Jan. 1, 1884
291,211	McIntire, C	Connectors	Jan. 1, 1884
291,236	Smith, G	Telegraphs, quadruplex	Jan. 1, 1884
291,239	Stanley, H. D	Conductors	Jan. 1, 1884
291,241	Tobin, J. L	Batteries, galvanic	Jan. 1, 1884
291,286	Brewer, H. J	do	Jan. 1, 1884
291,288	Brown, A. T	Applications, tools and machines	Jan. 1, 1884
291,299	Connolly, A. A	Cut-outs, electro-magnetic	Jan. 1, 1884
291,310	Dillon, B. F	Alarms, burglar	Jan. 1, 1884
291,311	Drawbaugh, D	Telephonic telegraphs, electric	Jan. 1, 1884
291,312	Drawbaugh, D	do	Jan. 1, 1884
291,317	Field, S. D	Underground lines	Jan. 1, 1884
291,318	Field, S. D	Telegraphs, duplex	Jan. 1, 1884
291,360	Knight, J. K	Railway-signals	Jan. 1, 1884
291,371	Mayall, T. J	Underground lines	Jan. 1, 1884
291,399	Randall, N	Conductors	Jan. 1, 1884
291,405	Russell, P. G	Meters	Jan. 1, 1884
291,435	Wagner, C. H	Telegraph-poles	Jan. 1, 1884
291,445	Weston, E	Regulators	Jan. 1, 1884
291,463	Ball, C. E. and Bradford, C. S., jr	Applications, tools and machines	Jan. 1, 1884
291,464	Beeman, J. S	Lights, incandescent	Jan. 1, 1884
291,465	Beeman, J. S., Taylor, W. and King, F	Batteries, secondary, applications	Jan. 1, 1884
291,472	Drawbaugh, D	Telephonic telegraphs, electric	Jan. 1, 1884
291,478	Horner, J. W	Underground lines	Jan. 1, 1884
291,483	Baker, W. H	Cut-outs, electro-magnetic	Jan. 8, 1884
291,484	Baker, W. H	do	Jan. 8, 1884
291,526	Molera, E. J. and Cebrian, J. C	Batteries, secondary	Jan. 8, 1884
291,553	Van Depoele, C. J	Lights, arc	Jan. 8, 1884
291,554	Van Depoele, C. J	Regulators	Jan. 8, 1884
291,556	Vogel, W	Railway-signals	Jan. 8, 1884
291,566	Bain, F	Regulators	Jan. 8, 1884
291,575	Campbell, A	Applications, tools and machines	Jan. 8, 1884
291,590	Gary, W. W	Railway-signals	Jan. 8, 1884
291,636	Stockwell, L. W	Motors	Jan. 8, 1884
291,648	Van Depoele, C. J	Cut-outs, electro-magnetic	Jan. 8, 1884
291,649	Van Depoele, C. J	do	Jan. 8, 1884
291,650	Van Depoele, C. J	Motors	Jan. 8, 1884
291,651	Van Depoele, C. J	Lights, arc	Jan. 8, 1884
291,652	Van Depoele, C. J	Cut-outs, electro-magnetic	Jan. 8, 1884
291,653	Van Depoele, C. J	Lights, arc	Jan. 8, 1884
291,670	Body, M	Electrolysis	Jan. 8, 1884
291,684	Cheever, J. H	Telephonic telegraphs, magnetic	Jan. 8, 1884
291,705	Field, S. D	Telegraphs, printing	Jan. 8, 1884
291,715	Greives, J. and Bleoo, J. H	Conductors, anti-inductive	Jan. 8, 1884
291,716	Greives, J	Conductors	Jan. 8, 1884
291,717	Greives, J	do	Jan. 8, 1884
291,718	Greives, J	do	Jan. 8, 1884
291,721	Hadden, W	Railway-signals	Jan. 8, 1884

No.	NAME.	CLASS.	DATE.
291,731	Hinds, C. H.	Lights, systems and appliances	Jan. 8, 1884
291,798	Starr, E. T.	Underground lines	Jan. 8, 1884
291,802	Sutton, L. W., jr.	Telephonic telegraphs, magnetic	Jan. 8, 1884
291,825	Williams, A. and Gannon, J. M.	Cut-outs, mechanical	Jan. 8, 1884
291,849	Howson, H.	Underground lines	Jan. 8, 1884
291,850	Knowles, E. R.	Batteries, secondary	Jan. 8, 1884
291,866	Berliner, E.	Telephonic telegraphs, electric	Jan. 15, 1884
291,867	Blamires, T. H.	Lights, incandescent	Jan. 15, 1884
291,871	Brewer, H. J.	Batteries, galvanic	Jan. 15, 1884
291,915	Lockwood, T. D.	Telephonic telegraphs, systems	Jan. 15, 1884
291,925	Morton, E. W.	Applications, tools and machines	Jan. 15, 1884
291,944	Schuyler, D. A. and Waterhouse, A. G.	Magneto-electric	Jan. 15, 1884
291,948	Small, D. M.	Applications, tools and machines	Jan. 15, 1884
291,958	Thomas, W. M.	Cut-outs, electro-magnetic	Jan. 15, 1884
291,973	Ball, C. E.	Magneto-electric	Jan. 15, 1884
291,996	Dorsett, D. H., Morris, J. E. and Williams, B.	Underground lines	Jan. 15, 1884
292,022	Maine, H.	Telephonic telegraphs, details	Jan. 15, 1884
292,034	Molera, E. J. and Cebrian, J. C.	Batteries, secondary	Jan. 15, 1884
292,079	Wenström, J.	Magneto-electric	Jan. 15, 1884
292,096	Carter, G. W. L.	Separators	Jan. 15, 1884
292,113	Hayes, C. H.	Lights, arc	Jan. 15, 1884
292,115	Herzog, F. B.	Annunciators	Jan. 15, 1884
292,119	Kessler, J. K.	Electrolysis	Jan. 15, 1884
292,121	Knowles, E. R. and Idell, F. E.	Magneto-electric	Jan. 15, 1884
292,142	Smyth, C. A.	Batteries, secondary	Jan. 15, 1884
292,153	Bowen, W. J.	Magneto-electric, hand-machines	Jan. 22, 1884
292,161	Eaton, A. K.	Meters	Jan. 22, 1884
292,178	Rider, A. K.	Applications, tools and machines	Jan. 22, 1884
292,180	Ryder, S.	Connectors	Jan. 22, 1884
292,193	Abdank-Abakanowicz, B.	Magneto-electric, hand-machines	Jan. 22, 1884
292,203	Cheever, J. H.	Telephonic telegraphs, electric	Jan. 22, 1884
292,212	Eckert, W. H.	do	Jan. 22, 1884
292,293	Fitch, F. K.	Lights, arc	Jan. 22, 1884
292,310	Himmer, I. C.	Batteries, galvanic	Jan. 22, 1884
292,311	Hinton, J. R. H.	Telegraphs, fire	Jan. 22, 1884
292,317	Joseph, T. B.	Applications, general	Jan. 22, 1884
292,324	Knowles, E. R. and Idell, F. E.	Lights, incandescent	Jan. 22, 1884
292,335	Lockwood, T. D. and Lane, T. W.	Telephonic telegraphs, magnetic	Jan. 22, 1884
292,374	Smith, A. T.	Gas-lighting	Jan. 22, 1884
292,382	Stockwell, L. W.	Regulators	Jan. 22, 1884
292,397	Amet, E. H.	do	Jan. 22, 1884
292,403	Beeman, J. S.	Lights, incandescent	Jan. 22, 1884
292,433	Howell, T. J.	Batteries, galvanic	Jan. 22, 1884
292,447	Swan, A.	Lights, incandescent	Jan. 22, 1884
292,469	Case, W. E.	Batteries, secondary	Jan. 29, 1884
292,529	Ayrton, W. E. and Perry, J.	Locomotion	Jan. 29, 1884
292,539	Cowles, A. A.	Conductors	Jan. 29, 1884
292,542	Crossley, L. J., Emmott, W. and Harrison, J. F.	Telephonic telegraphs, calls	Jan. 29, 1884
292,570	Oram, J. M., Sutton, H. M. and Garrett, H.	do	Jan. 29, 1884
292,586	Rhodes, T. H.	Cut-outs, thermal	Jan. 29, 1884
292,602	Waite, H. E.	Telephonic telegraphs, magnetic	Jan. 29, 1884
292,603	Waite, H. E.	Telephonic telegraphs, electric	Jan. 29, 1884
292,607	Wilson, M. H.	Telegraphs, automatic	Jan. 29, 1884
292,625	Buckley, W. F.	Magneto-electric	Jan. 29, 1884
292,687	Scott, C. A.	Railway-signals	Jan. 29, 1884
292,691	Sellon, J. S.	Regulators	Jan. 29, 1884
292,694	Shaw, W. A.	Conductors	Jan. 29, 1884
292,713	Weston, E.	Cut-outs, thermal	Jan. 29, 1884
292,714	Weston, E.	Indicators	Jan. 29, 1884
292,715	Weston, E.	Regulators	Jan. 29, 1884
292,716	Weston, E.	Lights, systems and appliances	Jan. 29, 1884
292,717	Weston, E.	Conductors	Jan. 29, 1884
292,718	Weston, E.	Lights, systems and appliances	Jan. 29, 1884
292,719	Weston, E.	Magneto-electric	Jan. 29, 1884
292,720	Weston, E.	Lights, systems and appliances	Jan. 29, 1884
292,721	Weston, E.	Regulators	Jan. 29, 1884
292,743	Gassett, O.	Railway-signals	Jan. 29, 1884
292,744	Gassett, O.	do	Jan. 29, 1884
292,753	Kessler, J. K.	Electrolysis	Jan. 29, 1884
292,761	Olmsted, J.	Lights, systems and appliances	Jan. 29, 1884
292,762	Philippart, G.	Batteries, secondary	Jan. 29, 1884
292,772	Van Hovenbergh, H.	Conductors	Jan. 29, 1884
292,785	Bogart, A. L.	Cut-outs, thermal	Feb. 5, 1884
292,786	Bogart, A. L.	Alarms, burglar	Feb. 5, 1884
292,796	Dyer, J. W.	Cut-outs, electro-magnetic	Feb. 5, 1884
292,806	Hanson, J. P. and Christensen, J. P.	Alarms, burglar	Feb. 5, 1884
292,807	Hanson, J. P. and Christensen, J. P.	do	Feb. 5, 1884

No.	NAME.	CLASS.	DATE.
292,835	Mehren, J. F.	Telephonic telegraphs, electric	Feb. 5, 1884
292,840	Moses, O. A.	Lights, arc	Feb. 5, 1884
292,847	Patterson, W. R.	Conductors	Feb. 5, 1884
292,848	Patterson, W. R.	do	Feb. 5, 1884
292,849	Patterson, W. R.	do	Feb. 5, 1884
292,857	Rogers, J. H.	Telephonic telegraphs, systems	Feb. 5, 1884
292,858	Rogers, J. H.	Telephonic telegraphs, mechanical	Feb. 5, 1884
292,865	Scribner, C. E.	Telephonic telegraphs, systems	Feb. 5, 1884
292,866	Scribner, C. E.	do	Feb. 5, 1884
292,881	Ware, F.	Telephonic telegraphs, electric	Feb. 5, 1884
292,930	Lubke, A. E. G.	Motors	Feb. 5, 1884
292,962	Talbot, C. N.	Clocks	Feb. 5, 1884
292,966	Van Hoevenbergh, H.	Telegraphs, printing	Feb. 5, 1884
292,992	Cornelius, O. H. P. and Turner, G. H.	Thermostats	Feb. 5, 1884
292,999	Fairbanks, L. S.	Telephonic telegraphs, calls	Feb. 5, 1884
293,076	Piette, L. and Krizik, F.	Lights, arc	Feb. 5, 1884
293,105	Spurgeon, S. J.	Keys	Feb. 5, 1884
293,110	Taylor, T. F.	Telegraphs, automatic	Feb. 5, 1884
293,111	Taylor, T. F.	do	Feb. 5, 1884
293,112	Taylor, T. F.	do	Feb. 5, 1884
293,116	Timmis, I. A. and Currie, S. C. C.	Electro-magnets	Feb. 5, 1884
293,118	Townsend, L.	Telephonic telegraphs, systems	Feb. 5, 1884
293,136	Benjamin, P.	Telephonic telegraphs, details	Feb. 5, 1884
293,154	Drawbaugh, D.	Telephonic telegraphs, magnetic	Feb. 5, 1884
293,160	Gilliland, E. T.	Magneto-electric, hand-machines	Feb. 5, 1884
293,161	Gilliland, E. T.	Telephonic telegraphs, systems	Feb. 5, 1884
293,162	Gilliland, E. T.	Magneto-electric, hand-machines	Feb. 5, 1884
293,171	Haskins, C. D.	Telephonic telegraphs, systems	Feb. 5, 1884
293,179	King, C. W. and Cliff, A.	Applications, tools and machines	Feb. 5, 1884
293,196	Scribner, C. E.	Telephonic telegraphs, systems	Feb. 5, 1884
293,197	Scribner, C. E.	do	Feb. 5, 1884
293,198	Scribner, C. E.	do	Feb. 5, 1884
293,206	Wilson, E. M.	do	Feb. 5, 1884
293,214	Averell, W. W.	Underground lines	Feb. 12, 1884
293,242	Hale, A. W.	Insulators	Feb. 12, 1884
293,256	Languereau, J.	Lights, incandescent	Feb. 12, 1884
293,271	Philips, W. J. and Kitson, G. L.	Conductors	Feb. 12, 1884
293,272	Pope, F. L.	Batteries, galvanic	Feb. 12, 1884
293,318	Giles, J. E.	Lights, systems and appliances	Feb. 12, 1884
293,330	Jenkins, E. H.	Gas-lighting	Feb. 12, 1884
293,338	Many, C. M.	Applications, general	Feb. 12, 1884
293,381	Upham, J. C. and Rogers, J. P.	Railway-signals	Feb. 12, 1884
293,426	Cushing, F. W.	Meters	Feb. 12, 1884
293,432	Edison, T. A.	Magneto-electric	Feb. 12, 1884
293,433	Edison, T. A.	Conductors	Feb. 12, 1884
293,434	Edison, T. A.	Lights, incandescent	Feb. 12, 1884
293,435	Edison, T. A.	Meters	Feb. 12, 1884
293,441	Fitch, F. K.	Magneto-electric	Feb. 12, 1884
293,482	Markle, J. R. and Wayne, J. B.	do	Feb. 12, 1884
293,495	Moses, O. A.	Lights, arc	Feb. 12, 1884
293,518	Prince, J.	Applications, general	Feb. 12, 1884
293,532	Smith, L. L.	Conductors	Feb. 12, 1884
293,533	Smith, T. L.	Underground lines	Feb. 12, 1884
293,552	Bergmann, S.	Lights, systems and appliances	Feb. 12, 1884
293,553	Bergmann, S.	do	Feb. 12, 1884
293,556	Bradbury, W.	Motors	Feb. 12, 1884
293,561	Buck, H. C.	Telephonic telegraphs, electric	Feb. 12, 1884
293,563	Clarke, C. L. and Leigh, J.	Batteries, galvanic	Feb. 12, 1884
293,571	Gassett, O.	Bells	Feb. 12, 1884
293,612	Woolley, L. G.	Lightning-rods	Feb. 12, 1884
293,613	Herotizky, G. M.	Clocks	Feb. 12, 1884
293,626	Bunker, A. S.	Circuit-closers	Feb. 19, 1884
293,632	Cobb, H. B.	Underground lines	Feb. 19, 1884
293,679	Stark, W. F.	Therapeutics, body-wear	Feb. 19, 1884
293,688	Trask, C. H.	Underground lines	Feb. 19, 1884
293,735	Henderson, J. C.	Applications, tools and machines	Feb. 19, 1884
293,736	Hibbard, A. S.	Telephonic telegraphs, systems	Feb. 19, 1884
293,758	Lubke, A. E. G.	Magneto-electric	Feb. 19, 1884
293,775	Patterson, W. R.	Conductors	Feb. 19, 1884
293,828	Weiss, C. W.	Recorders	Feb. 19, 1884
293,851	De Castro, J. W.	Applications, tools and machines	Feb. 19, 1884
293,879	Holzer, W.	Lights, systems and appliances	Feb. 19, 1884
293,886	Jones, J. B.	Electrolysis	Feb. 19, 1884
293,901	McGrory, T.	Insulators	Feb. 19, 1884
293,921	Townsend, H. C. and Buckingham, C. L.	Cut-outs, electro-magnetic	Feb. 19, 1884
293,922	Van Hoevenbergh, H.	Telegraphs, printing	Feb. 19, 1884
293,923	Van Hoevenbergh, H.	Motors	Feb. 19, 1884

No.	NAME.	CLASS.	DATE.
293,924	Van Hoevenbergh, H	Telegraphs, printing	Feb. 19, 1884
293,925	Van Hoevenbergh, H	do	Feb. 19, 1884
293,926	Van Hoevenbergh, H	do	Feb. 19, 1884
293,927	Van Hoevenbergh, H	do	Feb. 19, 1884
293,928	Van Hoevenbergh, H	do	Feb. 19, 1884
293,929	Waters, W. T.	Motors	Feb. 19, 1884
293,938	Boyd, D	Telephonic telegraphs, calls	Feb. 19, 1884
293,943	Buckingham, C. L. and Townsend, H. C	Cut-outs, electro-magnetic	Feb. 19, 1884
293,944	Buckingham, C. L. and Townsend, H. C	do	Feb. 19, 1884
293,956	Eils, B. E. J.	Telegraphs, quadruplex	Feb. 19, 1884
293,959	Field, S. D.	Telegraphs, printing	Feb. 19, 1884
293,974	McCarty, W. F. M.	Telegraphs, automatic	Feb. 19, 1884
293,979	Plumb, C	Keys	Feb. 19, 1884
293,980	Redding, J.	Bells	Feb. 19, 1884
293,993	Withers, J. E.	Car-brakes	Feb. 19, 1884
294,008	Buell, C. E.	Telegraphs, fire	Feb. 26, 1884
294,021	Faber, C	Separators	Feb. 26, 1884
294,027	Freeman, W. P.	Lights, arc	Feb. 26, 1884
294,030	Gassett, O.	Railway-signals	Feb. 26, 1884
294,038	Hochhausen, W.	Regulators	Feb. 26, 1884
294,039	Hochhausen, W.	do	Feb. 26, 1884
294,040	Hochhausen, W.	do	Feb. 26, 1884
294,041	Hochhausen, W.	do	Feb. 26, 1884
294,042	Hochhausen, W.	Lights, arc	Feb. 26, 1884
294,043	Hochhausen, W.	Magneto-electric	Feb. 26, 1884
294,044	Hochhausen, W.	Lights, incandescent	Feb. 26, 1884
294,045	Hochhausen, W.	Lights, systems and appliances	Feb. 26, 1884
294,051	Kessler, J. K.	Electrolysis	Feb. 26, 1884
294,059	McElhiney, H. H.	Dental-instruments	Feb. 26, 1884
294,066	Nystrom, J. W.	Motors	Feb. 26, 1884
294,094	Thomson, E.	Magneto-electric	Feb. 26, 1884
294,095	Thomson, E.	Motors	Feb. 26, 1884
294,116	Buys, B.	Railway-signals	Feb. 26, 1884
294,128	Healy, O.	Applications, general	Feb. 26, 1884
294,131	Himmer, V.	Clocks	Feb. 26, 1884
294,132	Himmer, V.	do	Feb. 26, 1884
294,148	Pope, F. L.	Conductors	Feb. 26, 1884
294,165	Van Depoele, C. J.	Motors	Feb. 26, 1884
294,169	Waterhouse, A. G.	Regulators	Feb. 26, 1884
294,170	Waterhouse, A. G.	do	Feb. 26, 1884
294,180	Ball, C. E.	Magneto-electric	Feb. 26, 1884
294,195	Carley, H. and McKenna, T.	Indicators	Feb. 26, 1884
294,212	Farnham, I. II	Annunciators	Feb. 26, 1884
294,238	Huston, H. E.	Telephonic telegraphs, mechanical	Feb. 26, 1884
294,259	Neifing, J.	Keys	Feb. 26, 1884
294,270	Rae, F. B. and Healy, C. L.	Magneto-electric	Feb. 26, 1884
294,294	Waterhouse, A. G.	Lights, arc	Feb. 26, 1884
294,297	Wilkins, G. A.	Telephonic telegraphs, systems	Feb. 26, 1884
294,307	Buckingham, C. L.	Regulators	Feb. 26, 1884
294,308	Buell, C. E.	Telegraphs, fire	Feb. 26, 1884
294,335	Ross, O. C. D.	Batteries, galvanic	Feb. 26, 1884
294,336	Scribner, C. E.	Telephonic telegraphs, systems	Feb. 26, 1884
294,351	Bartlett, W. A.	Exploding	Mar. 4, 1884
294,365	Cobb, H. B.	Underground lines	Mar. 4, 1884
294,371	Davis, G. W.	Recorders	Mar. 4, 1884
294,384	Hale, A. W.	Insulators	Mar. 4, 1884
294,404	Pinkham, C. S.	Circuit-closers	Mar. 4, 1884
294,405	Rider, A. K.	Thermostats	Mar. 4, 1884
294,412	Stanley, W. jr.	Lights, systems and appliances	Mar. 4, 1884
294,455	Earle, H. A. and Goltstein, E.	Lights, arc	Mar. 4, 1884
294,457	Fottrell, J.	Conductors	Mar. 4, 1884
294,458	Fuller, G. W.	Magneto-electric	Mar. 4, 1884
294,463	Haid, A.	Batteries, secondary	Mar. 4, 1884
294,464	Haid, A.	do	Mar. 4, 1884
294,465	Haid, A.	do	Mar. 4, 1884
294,482	Lytle, F. M. and McCoy, J. A.	Telephonic telegraphs, systems	Mar. 4, 1884
294,500	Patterson, W. R.	Underground lines	Mar. 4, 1884
294,532	Van Depoele, C. J.	Lights, arc	Mar. 4, 1884
294,533	Van Depoele, C. J.	do	Mar. 4, 1884
294,536	Waring, R. S.	Underground lines	Mar. 4, 1884
294,537	Waring, R. S.	do	Mar. 4, 1884
294,538	Waring, R. S.	do	Mar. 4, 1884
294,539	Waring, R. S.	do	Mar. 4, 1884
294,540	Waring, R. S.	do	Mar. 4, 1884
294,541	Waring, R. S.	do	Mar. 4, 1884
294,542	Waring, R. S.	do	Mar. 4, 1884
294,543	Waring, R. S.	do	Mar. 4, 1884

No.	NAME.	CLASS.	DATE.
294,544	Waring, R. S.	Underground lines	Mar. 4, 1884
294,545	Waring, R. S.	do	Mar. 4, 1884
294,546	Waring, R. S.	do	Mar. 4, 1884
294,547	Waring, R. S.	do	Mar. 4, 1884
294,548	Waring, R. S.	do	Mar. 4, 1884
294,549	Waring, R. S.	do	Mar. 4, 1884
294,550	Waring, R. S.	do	Mar. 4, 1884
294,552	Webb, G. B.	Clocks	Mar. 4, 1884
294,557	Wilson, W. V.	Underground lines	Mar. 4, 1884
294,563	Beach, W. W.	Insulators	Mar. 4, 1884
294,613	Gramme, Z. T.	Magneto-electric	Mar. 4, 1884
294,618	Henderson, J. C.	Locomotion	Mar. 4, 1884
294,669	Pope, F. L.	Electro-magnets	Mar. 4, 1884
294,688	Sheehy, R. J.	Magneto-electric	Mar. 4, 1884
294,697	Stieringer, L.	Lights, systems and appliances	Mar. 4, 1884
294,703	Verstraete, E.	Underground lines	Mar. 4, 1884
294,717	Bacon, M.	Motors	Mar. 4, 1884
294,719	Ball, C. M.	Magneto-electric	Mar. 4, 1884
294,817	Shaffer, C. H.	Dental instruments	Mar. 11, 1884
294,842	Beile, C.	Magnetic-locks	Mar. 11, 1884
294,851	Childs, W. A. and Shaw, F.	Connectors	Mar. 11, 1884
294,892	Lungren, C. M.	Magneto-electric	Mar. 11, 1884
294,906	Perrin, T. J.	Underground lines	Mar. 11, 1884
294,913	Richter, C.	Magneto-electric	Mar. 11, 1884
294,928	Stevenson, T. S.	Connectors	Mar. 11, 1884
295,058	Sheehy, R. J.	Lights, arc	Mar. 11, 1884
295,059	Shute, E. L.	Gas-lighting	Mar. 11, 1884
295,073	Stone, R. C.	Conductors	Mar. 11, 1884
295,074	Stone, R. C.	Transmitters	Mar. 11, 1884
295,075	Stone, R. C.	do	Mar. 11, 1884
295,086	Waring, R. S.	Underground lines	Mar. 11, 1884
295,087	Welsh, A.	Lights, incandescent	Mar. 11, 1884
295,088	Welsh, A.	do	Mar. 11, 1884
295,094	Ayrton, W. E. and Perry, J.	Locomotion	Mar. 11, 1884
295,206	Stevens, H. M.	Magneto-electric	Mar. 18, 1884
295,207	Stone, R. C.	Conductors	Mar. 18, 1884
295,219	Absterdam, J.	Telegraphs, automatic	Mar. 18, 1884
295,223	Blake, F.	Telephonic telegraphs, systems	Mar. 18, 1884
295,232	Cowles, A. A.	Conductors	Mar. 18, 1884
295,249	Henry, J. C.	Telegraphs, fire	Mar. 18, 1884
295,267	McDaniel, C. W.	Lightning-arresters	Mar. 18, 1884
295,287	Sawyer, W. H.	Clocks	Mar. 18, 1884
295,334	Berry, W. and Stuart, P.	Underground lines	Mar. 18, 1884
295,356	Connolly, T. A.	Telephonic telegraphs, systems	Mar. 18, 1884
295,365	Davis, A. G.	do	Mar. 18, 1884
295,367	Dennis, T. L.	Lights, arc	Mar. 18, 1884
295,368	Dennis, T. L.	Magneto-electric	Mar. 18, 1884
295,371	Doolittle, G.	Connectors	Mar. 18, 1884
295,398	Holzer, W.	Lights, systems and appliances	Mar. 18, 1884
295,427	Pope, F. L.	Railway-signals	Mar. 18, 1884
295,445	Shivler, C. S.	Alarms, burglar	Mar. 18, 1884
295,454	Sprague, F. J.	Motors	Mar. 18, 1884
295,455	Starr, E. T.	Batteries, secondary	Mar. 18, 1884
295,456	Starr, E. T.	do	Mar. 18, 1884
295,473	Bacon, M.	Locomotion	Mar. 18, 1884
295,531	Fish, G. W.	Telephonic telegraphs, systems	Mar. 25, 1884
295,534	Frick, F. G.	Magneto-electric	Mar. 25, 1884
295,552	Hochhausen, W.	Regulators	Mar. 25, 1884
295,559	Kitson, G. L.	Connectors	Mar. 25, 1884
295,574	McGinnis, W. T.	Batteries, galvanic	Mar. 25, 1884
295,581	Pace, R. G. and Wev, W. J.	Alarms	Mar. 25, 1884
295,614	Boothby, J. W.	Locomotion	Mar. 25, 1884
295,644	Johnson, A. F.	Telegraphs, printing	Mar. 25, 1884
295,652	Kinder, A. H.	Dental instruments	Mar. 25, 1884
295,664	Morava, W.	Lights, arc	Mar. 25, 1884
295,671	Pabst, C.	Batteries, galvanic	Mar. 25, 1884
295,686	Sparrow, F. M.	Applications, general	Mar. 25, 1884
295,710	Wylie, R.	Underground lines	Mar. 25, 1884
295,741	Drawbaugh, D.	Telephonic telegraphs, electric	Mar. 25, 1884
295,742	Drawbaugh, D.	do	Mar. 25, 1884
295,759	Hill, J.	Telegraphs, fire	Mar. 25, 1884
295,760	Hill, J.	Thermostats	Mar. 25, 1884
295,789	McTighe, J. J.	Magneto-electric	Mar. 25, 1884
295,804	Randall, C. A.	Telephonic telegraphs, magnetic	Mar. 25, 1884
295,805	Randall, C. A.	Telephonic telegraphs, electric	Mar. 25, 1884
295,806	Randall, C. A.	do	Mar. 25, 1884
295,807	Randall, C. A.	do	Mar. 25, 1884

No.	NAME.	CLASS.	DATE.
295,836	Thomson, E	Lights, arc	Mar. 25, 1884
295,855	Burke, C. G	Telegraphs, dial	Mar. 25, 1884
295,873	Jungerman, E	Clocks	Mar. 25, 1884
295,889	Starr, E. T	Batteries, secondary	Mar. 25, 1884
295,905	Brott, G. F	Telegraph-poles	Apr. 1, 1884
295,913	Dudley, W. J	Telephonic telegraphs, calls	Apr. 1, 1884
295,966	Williamson, J. J	Conductors	Apr. 1, 1884
295,983	Cook, F. B. and Graves, F. F	Telephonic telegraphs, systems	Apr. 1, 1884
296,058	Porter, M. D	Thermostats	Apr. 1, 1884
296,068	Rouleau, F. V	Separators	Apr. 1, 1884
296,074	Shaw, T	Conductors	Apr. 1, 1884
296,125	Buckingham, C. L. and Townsend, H. C	Cut-outs, electro-magnetic	Apr. 1, 1884
296,146	Davis, W. H	Underground lines	Apr. 1, 1884
296,148	Delmage, W. A	Applications, tools and machines	Apr. 1, 1884
296,160	Goodbody, A. G	Connectors	Apr. 1, 1884
296,164	Haid, A	Batteries, secondary	Apr. 1, 1884
296,185	Kruesi, J	Underground lines	Apr. 1, 1884
296,211	Park, H. S	Car-brakes	Apr. 1, 1884
296,212	Park, H. S	do	Apr. 1, 1884
296,230	Seligman, H. and E	Telephonic telegraphs, mechanical	Apr. 1, 1884
296,253	Vail, T. N	Telephonic telegraphs, systems	Apr. 1, 1884
296,256	Wagner, G. G	Clocks	Apr. 1, 1884
296,262	Williams, F. T. and Howell, J. C	Batteries, secondary	Apr. 1, 1884
296,294	Miner, T	Conductors	Apr. 1, 1884
296,319	Duvelius, A. L	Car-brakes	Apr. 8, 1884
296,330	Gilliland, J. F	Telephonic telegraphs, mechanical	Apr. 8, 1884
296,331	Gumpel, C. G	Batteries, secondary	Apr. 8, 1884
296,341	Maxim, H. S	Applications, tools and machines	Apr. 8, 1884
296,349	Park, H. S	Car-brakes	Apr. 8, 1884
296,355	Ritchie, J	Lights, systems and appliances	Apr. 8, 1884
296,357	Rogers, A. J	Electrolysis	Apr. 8, 1884
296,365	Thame, H	Batteries, galvanic	Apr. 8, 1884
296,375	Adams, J. S. and F. U	Lights, systems and appliances	Apr. 8, 1884
296,376	Auderson, R	Telegraphs, automatic	Apr. 8, 1884
296,380	Bair, F	Electro-magnets	Apr. 8, 1884
296,401	Gillon, L	Applications, tools and machines	Apr. 8, 1884
296,407	Griffin, J	Lightning-arresters	Apr. 8, 1884
296,420	Maloney, J. A	Telephonic telegraphs, magnetic	Apr. 8, 1884
296,421	Maloney, J. A	Telephonic telegraphs, electric	Apr. 8, 1884
296,464	Schroeder, A	Batteries, galvanic	Apr. 8, 1884
296,485	Tringham, J. W	Insulators	Apr. 8, 1884
296,546	Flad, H	Car-brakes	Apr. 8, 1884
296,547	Flad, H	Connectors	Apr. 8, 1884
296,549	Flad, H	Car-brakes	Apr. 8, 1884
296,558	Haines, D. S. and Lake, S. D	Insulators	Apr. 8, 1884
296,569	Houston, E. J. and Thomson, E	Magneto-electric	Apr. 8, 1884
296,588	Lockwood, T. D	Telephonic telegraphs, calls	Apr. 8, 1884
296,593	Maloney, J. A	Telephonic telegraphs, electric	Apr. 8, 1884
296,641	Springer, L. C	Morse-registers	Apr. 8, 1884
296,653	Waldo, F	Clocks	Apr. 8, 1884
296,676	Chadwick, S	Telephonic telegraphs, electric	Apr. 8, 1884
296,688	Haines, D. S. and Lake, S. D	Insulators	Apr. 8, 1884
296,729	Conant, G. P	Bells	Apr. 15, 1884
296,774	Patterson, W. R	Underground lines	Apr. 15, 1884
296,799	Thomson, E	Regulators	Apr. 15, 1884
296,812	Blake, S. N	Circuit-closers	Apr. 15, 1884
296,829	Gillett, W	Telephonic telegraphs, electric	Apr. 15, 1884
296,849	Lachlan, W	Batteries, secondary	Apr. 15, 1884
296,857	Luhke, A. E. G	Magneto-electric	Apr. 15, 1884
296,866	Newbury, H. F	Magnetic-locks	Apr. 15, 1884
296,874	Porter, M. D	Telegraphs, fire	Apr. 15, 1884
296,875	Porter, M. D. and Wilder, E. R	do	Apr. 15, 1884
296,881	Seely, J. A	Insulators	Apr. 15, 1884
297,022	Skinner, J. J	Lights, arc	Apr. 15, 1884
297,072	Durbrow, G. W	Lights, systems and appliances	Apr. 15, 1884
297,096	Woehle, A. C	Magnetic-locks	Apr. 15, 1884
297,101	Baldwin, L. C. and Thurston, J. C	Insulators	Apr. 22, 1884
297,111	Campbell, A	Applications, tools and machines	Apr. 22, 1884
297,148	McFall, E. H	Telephonic telegraphs, calls	Apr. 22, 1884
297,166	Rogers, J. H	Telephonic telegraphs, magnetic	Apr. 22, 1884
297,167	Rogers, J. H	Telephonic telegraphs, electric	Apr. 22, 1884
297,168	Rogers, J. H	do	Apr. 22, 1884
297,175	Shelbourne, S. F	Conductors, anti-inductive	Apr. 22, 1884
297,176	Shelbourne, S. F	do	Apr. 22, 1884
297,177	Shelbourne, S. F	do	Apr. 22, 1884
297,178	Shelbourne, S. F	do	Apr. 22, 1884
297,179	Shelbourne, S. F	Underground lines	Apr. 22, 1884

No.	NAME.	CLASS.	DATE.
297,180	Shelbourne, S. F.	Conductors, anti-inductive	Apr. 22, 1884
297,181	Shelbourne, S. F.	Conductors	Apr. 22, 1884
297,182	Shelbourne, S. F.	Telegraph-poles	Apr. 22, 1884
297,183	Shelbourne, S. F.	Underground lines	Apr. 22, 1884
297,184	Shelbourne, S. F.	Conductors, anti-inductive	Apr. 22, 1884
297,186	Smith, G.	Telegraphs, quadruplex	Apr. 22, 1884
297,194	Thomson, E.	Lights, arc	Apr. 22, 1884
297,195	Thomson, E.	do	Apr. 22, 1884
297,196	Thomson, E.	do	Apr. 22, 1884
297,197	Thomson, E.	do	Apr. 22, 1884
297,198	Thomson, E.	do	Apr. 22, 1884
297,199	Thomson, E.	do	Apr. 22, 1884
297,200	Thomson, E.	do	Apr. 22, 1884
297,201	Thomson, E.	do	Apr. 22, 1884
297,269	Klein, P. H., jr.	Lights, systems and appliances	Apr. 22, 1884
297,273	Lawson, J. W.	Magneto-electric	Apr. 22, 1884
297,290	Patee, T. H.	Lightning-rods	Apr. 22, 1884
297,291	Patee, T. H.	do	Apr. 22, 1884
297,306	Smith, M. H.	Locomotion	Apr. 22, 1884
297,324	Weston, E.	Rheostats	Apr. 22, 1884
297,331	Adams, J. S.	Lights, systems and appliances	Apr. 22, 1884
297,332	Adams, J. S.	do	Apr. 22, 1884
297,333	Adams, J. S.	do	Apr. 22, 1884
297,334	Adams, J. S.	do	Apr. 22, 1884
297,335	Adams, J. S.	do	Apr. 22, 1884
297,336	Adams, J. S.	do	Apr. 22, 1884
297,337	Adams, J. S.	do	Apr. 22, 1884
297,338	Adams, J. S.	do	Apr. 22, 1884
297,377	Gatehouse, T. E.	Lights, incandescent	Apr. 22, 1884
297,385	Greene, E. M.	Cut-outs, electro-magnetic	Apr. 22, 1884
297,397	Hildebrand, E. O.	Underground lines	Apr. 22, 1884
297,406	Jamieson, W.	Conductors, anti-inductive	Apr. 22, 1884
297,433	Neveux, C. G. E.	Lights, systems and appliances	Apr. 22, 1884
297,438	Parrish, M. F. and Munn, S. J.	Railway-signals	Apr. 22, 1884
297,457	Shaw, W. A.	Batteries, secondary	Apr. 22, 1884
297,462	Smith, T. L.	Underground lines	Apr. 22, 1884
297,463	Smith, T. L.	do	Apr. 22, 1884
297,470	Strangways, H. B. T.	Telephonic telegraphs, magnetic	Apr. 22, 1884
297,540	Smith, G.	Telegraphs, multiplex	Apr. 22, 1884
297,547	Wright, A. P.	Conductors	Apr. 22, 1884
297,578	Drawbaugh, D.	Telephonic telegraphs, electric	Apr. 29, 1884
297,579	Drawbaugh, D.	do	Apr. 29, 1884
297,580	Edison, T. A.	Lights, arc	Apr. 29, 1884
297,581	Edison, T. A.	Lights, systems and appliances	Apr. 29, 1884
297,582	Edison, T. A.	Magneto-electric	Apr. 29, 1884
297,583	Edison, T. A.	do	Apr. 29, 1884
297,584	Edison, T. A.	do	Apr. 29, 1884
297,585	Edison, T. A.	Lights, incandescent	Apr. 29, 1884
297,586	Edison, T. A.	Conductors	Apr. 29, 1884
297,587	Edison, T. A.	Magneto-electric	Apr. 29, 1884
297,623	Newbury, H. F.	Magnetic-locks	Apr. 29, 1884
297,626	Page, J. H.	Conductors	Apr. 29, 1884
297,647	Tuck, J. H. L.	Boat-steering	Apr. 29, 1884
297,648	Tuck, J. H. L.	Exploding	Apr. 29, 1884
297,655	Abernethy, T. R.	Connectors	Apr. 29, 1884
297,669	Brush, C. F.	Electrolysis	Apr. 29, 1884
297,677	Cottrell, H.	Insulators	Apr. 29, 1884
297,683	Doolittle, T. B.	Anti-induction devices	Apr. 29, 1884
297,688	Guillaume, F. C.	Conductors, anti-inductive	Apr. 29, 1884
297,699	Klein, J. M.	Insulators	Apr. 29, 1884
297,724	Smith, D. E.	Telephonic telegraphs, relays and repeaters	Apr. 29, 1884
297,732	Ware, F.	Telephonic telegraphs, details	Apr. 29, 1884
297,751	Bunnell, J. H.	Magnetic-locks	Apr. 29, 1884
297,819	Lewis, C. W.	Keys	Apr. 29, 1884
297,820	Loder, J. H.	Lights, arc	Apr. 29, 1884
297,833	Nungesser, P. P.	do	Apr. 29, 1884
297,855	Sawyer, W. H.	Conductors, anti-inductive	Apr. 29, 1884
297,866	Sperry, E. A.	Regulators	Apr. 29, 1884
297,867	Sperry, E. A.	Motors	Apr. 29, 1884
297,878	Van Depoele, C. J.	Magneto-electric	Apr. 29, 1884
297,879	Van Hoesenbergh, H.	Gas-lighting	Apr. 29, 1884
297,909	Bentley, E. M.	Telephonic telegraphs, calls	Apr. 29, 1884
297,924	Gaulard, L. and Gibbs, J. D.	Induction-coils	Apr. 29, 1884
297,926	Goebel, C. H.	Underground lines	Apr. 29, 1884
297,927	Goebel, C. H.	do	Apr. 29, 1884
297,928	Goebel, C. H.	Lights, systems and appliances	Apr. 29, 1884
297,929	Goebel, C. H.	Underground lines	Apr. 29, 1884

No.	NAME.	CLASS.	DATE.
297,937	Johnson, W. S.	Valve-controllers	Apr. 29, 1884
298,020	Page, J. H.	Underground lines	May 6, 1884
298,030	Schmid, A.	Applications, tools and machines	May 6, 1884
298,072	Dorsett, D. H.	Insulators	May 6, 1884
298,073	Doyle, J.	Rheostats	May 6, 1884
298,080	Gilehrst, J. D.	Annunciators	May 6, 1884
298,121	Ross, C. T.	Thermostats	May 6, 1884
298,130	Stockwell, L. W.	Motors	May 6, 1884
298,141	Weston, E.	Lights, systems and appliances	May 6, 1884
298,142	Weston, E.	Lights, incandescent	May 6, 1884
298,143	Weston, E.	do	May 6, 1884
298,144	Weston, E.	do	May 6, 1884
298,175	Clarke, C. L.	Batteries, galvanic	May 6, 1884
298,179	Conner, C.	Conductors	May 6, 1884
298,205	Himmer, I. C. and Weisgerber, W. F.	Clocks	May 6, 1884
298,209	Jackson, C. H.	Railway-signals	May 6, 1884
298,242	Seiler, P.	Annunciators	May 6, 1884
298,243	Shaver, G. F.	Telephonic telegraphs, systems	May 6, 1884
298,286	Clay, H.	Telephonic telegraphs, electric	May 6, 1884
298,301	Himmer, V.	Clocks	May 6, 1884
298,325	Weston, E.	Lights, incandescent	May 6, 1884
298,326	Weston, E.	Connectors	May 6, 1884
298,327	Weston, E.	Lights, systems and appliances	May 6, 1884
298,341	Blodgett, A. D.	Recorders	May 13, 1884
298,348	Casc, W. E.	Batteries, secondary	May 13, 1884
298,357	Dodge, T. H.	Lightning-rods	May 13, 1884
298,361	Erling, P. R.	Applications, general	May 13, 1884
298,383	Howes, A. P.	Telephonic telegraphs, calls	May 13, 1884
298,397	Oppenheimer, L. K.	Applications, general	May 13, 1884
298,431	Van Depoche, C. J.	Magneto-electric	May 13, 1884
298,479	Kurtz, A. B.	Telephonic telegraphs, mechanical	May 13, 1884
298,507	Saxe, C. A.	Motors	May 13, 1884
298,531	White, L. S.	Gas-lighting	May 13, 1884
298,550	Burke, C. G.	Regulators	May 13, 1884
298,557	Diolot, S.	Clocks	May 13, 1884
298,559	Doolittle, T. B.	Telephonic telegraphs, systems	May 13, 1884
298,571	Gardauer, G. W.	Telegraphs, quadruplex	May 13, 1884
298,593	Lewis, J. S.	Insulators	May 13, 1884
298,594	Lewis, J. S.	do	May 13, 1884
298,658	Bergmann, S.	Lights, systems and appliances	May 13, 1884
298,663	Bonnett, C. P.	Separators	May 13, 1884
298,676	Drawbaugh, D.	Telephonic telegraphs, electric	May 13, 1884
298,677	Drawbaugh, G. W.	do	May 13, 1884
298,679	Edison, T. A.	Lights, systems and appliances	May 13, 1884
298,692	Hoag, G. M.	do	May 13, 1884
298,751	Harrington, F. S.	Conductors, anti-inductive	May 20, 1884
298,753	Hinsdale, C. C.	Insulators	May 20, 1884
298,783	Scribner, C. E.	Telephonic telegraphs, magnetic	May 20, 1884
298,906	Spengler, C. G.	Indicators	May 20, 1884
298,913	Swayze, S. J. and Lane, J. C.	Railway-signals	May 20, 1884
298,922	Vetter, J. C. and Putnam, S. G.	Motors	May 20, 1884
298,923	Waite, H. E.	Telephonic telegraphs, electric	May 20, 1884
298,924	Waite, H. E.	Telephonic telegraphs, magnetic	May 20, 1884
298,925	Waite, H. E.	Telephonic telegraphs, electric	May 20, 1884
298,945	Carter, C. H.	Telegraphs, fire	May 20, 1884
298,954	Edison, T. A.	Magneto-electric	May 20, 1884
298,955	Edison, T. A.	do	May 20, 1884
298,956	Edison, T. A.	Regulators	May 20, 1884
298,975	Hunter, J.	Telegraph-poles	May 20, 1884
298,997	Millard, O.	Batteries, galvanic	May 20, 1884
299,011	Redding, J.	Indicators	May 20, 1884
299,021	Sellon, R. P.	Batteries, secondary, applications	May 20, 1884
299,025	Short, S. H.	Lights, arc	May 20, 1884
299,036	Taylor, G. W., Cox, A. R., Brown, W. C. and Sutherland, J. N.	Telegraphs, fire	May 20, 1884
299,039	Vail, T. N.	Telephonic telegraphs, systems	May 20, 1884
299,070	Herzog, F. B.	do	May 20, 1884
299,073	Husbands, J. D.	Telephonic telegraphs, electric	May 20, 1884
299,074	Husbands, J. D.	Telephonic telegraphs, magnetic	May 20, 1884
299,117	Diehl, P.	Magneto-electric	May 27, 1884
299,177	Stanley, W., jr.	Batteries, secondary	May 27, 1884
299,178	Stanley, W., jr.	do	May 27, 1884
299,206	Deavs, C.	Underground lines	May 27, 1884
299,259	Pike, E.	Separators	May 27, 1884
299,277	Sheridan, H. B.	Lights, systems and appliances	May 27, 1884
299,288	Stewart, J. N.	Telephonic telegraphs, systems	May 27, 1884
299,300	Warth, N. G.	do	May 27, 1884

No.	NAME.	CLASS.	DATE.
299,328	Beehler, W. H.	Recorders	May 27, 1884
299,397	Jones, E. and A. E.	Lights, arc	May 27, 1884
299,417	O'Sullivan, M. J.	Telegraphs, fire	May 27, 1884
299,434	Starr, E. T.	Batteries, secondary	May 27, 1884
299,449	Woodward, J. S.	Underground lines	May 27, 1884
299,467	Drake, D. E.	Connectors	May 27, 1884
299,546	Hovenden, G. E. and E. R.	Annunciators	June 3, 1884
299,551	Joel, H. F.	Magneto-electric	June 3, 1884
299,552	Johnson, W. S.	Indicators	June 3, 1884
299,561	Lytte, H. B. and Carty, J. J.	Clocks	June 3, 1884
299,562	Lytte, H. B. and Carty, J. J.	do	June 3, 1884
299,572	Oliver, H. W., jr.	Applications, tools and machines	June 3, 1884
299,600	Turner, T. G.	Lights, arc	June 3, 1884
299,603	Warner, J. C. and E. P.	Telephonic telegraphs, systems	June 3, 1884
299,649	Keep, W. F. and W. H.	Applications, general	June 3, 1884
299,664	McCausland, W. J.	Telegraphs, printing	June 3, 1884
299,700	Van Derveer, M. T. and Hegeman, J.	Separators	June 3, 1884
299,708	Welsh, A.	Lights, incandescent	June 3, 1884
299,745	Cooke, F. C.	Applications, tools and machines	June 3, 1884
299,885	Welsh, A.	Lights, incandescent	June 3, 1884
299,926	Haskins, C. H.	Telephonic telegraphs, systems	June 3, 1884
299,949	Bishoprick, N. J.	Transmitters	June 10, 1884
299,968	Torre, F. D.	Telephonic telegraphs, electric	June 10, 1884
299,970	Fenner, H. N.	Telegraphs, fire	June 10, 1884
299,992	Magner, W.	Underground lines	June 10, 1884
300,005	Patterson, W. R.	do	June 10, 1884
300,034	Vander Weyde, P. H.	Telegraphs	June 10, 1884
300,035	Walenn, W. H.	Electrolysis	June 10, 1884
300,052	Davis, A. G.	Batteries, secondary	June 10, 1884
300,068	Gravier, A. I.	Lights, systems and appliances	June 10, 1884
300,095	Lynn, M. N.	Lights, arc	June 10, 1884
300,098	McCarty, W. F. M.	Circuit-closers	June 10, 1884
300,134	Rousseau, D.	Annunciators	June 10, 1884
300,139	Schisgall, S.	Clocks	June 10, 1884
300,143	Scribner, C. E.	Telephonic telegraphs, systems	June 10, 1884
300,144	Scribner, C. E.	do	June 10, 1884
300,154	Starr, E. T.	Motors	June 10, 1884
300,155	Starr, E. T.	Lights, systems and appliances	June 10, 1884
300,168	Vail, T. N.	Annunciators	June 10, 1884
300,176	Wenzel, W.	Batteries, galvanic	June 10, 1884
300,179	Williamson, J. J.	Conductors	June 10, 1884
300,202	Boulier, A.	Indicators	June 10, 1884
300,210	Campbell, A.	Underground lines	June 10, 1884
300,238	Finger, L.	Railway-signals	June 10, 1884
300,253	Hazazer, E. W.	Bells	June 10, 1884
300,269	Lamar, J. S.	Relays and sounders	June 10, 1884
300,334	Wüest, C.	Magnetic-locks	June 10, 1884
300,338	Amet, E. H.	Valve-controllers	June 17, 1884
300,341	Buckingham, C. L. and Vansize, W. B.	Telegraphs, printing	June 17, 1884
300,353	Farrar, J. N. and Morse, C. W.	Transmitters	June 17, 1884
300,403	Splitdorf, H.	Conductors	June 17, 1884
300,410	Tichenor, A. C.	do	June 17, 1884
300,417	Vansize, W. B. and Buckingham, C. L.	Telegraphs, printing	June 17, 1884
300,420	Watson, J. E.	Regulators	June 17, 1884
300,422	West, W. A.	Telephonic telegraphs, electric	June 17, 1884
300,433	Bain, F.	Lights, arc	June 17, 1884
300,443	Buell, C. E.	Transmission of power	June 17, 1884
300,470	Hathaway, M. P.	Underground lines	June 17, 1884
300,489	Lever, C.	Lights, arc	June 17, 1884
300,490	Lockwood, C. S.	Recorders	June 17, 1884
300,523	Starr, E. T.	Lights, systems and appliances	June 17, 1884
300,524	Starr, E. T.	do	June 17, 1884
300,525	Starr, E. T.	do	June 17, 1884
300,532	Thomas, W. M.	Cut-outs, electro-magnetic	June 17, 1884
300,535	Van Depoele, C. J.	Magneto-electric	June 17, 1884
300,537	Wallace, J. B.	Batteries, galvanic	June 17, 1884
300,607	Hewett, R. J.	Annunciators	June 17, 1884
300,615	Lannert, J. A.	Magneto-electric	June 17, 1884
300,648	Sheridan, H. B. and Gorn, H. A.	Motors	June 17, 1884
300,666	Vetter, J. C. and Putnam, S. G.	Batteries, galvanic	June 17, 1884
300,669	Williamson, J. J.	Conductors	June 17, 1884
300,676	Bain, F.	Lights, arc	June 17, 1884
300,713	Knudson, A. A.	Telephonic telegraphs, mechanical	June 17, 1884
300,781	Jones, F. W.	Telegraphs, duplex	June 24, 1884
300,827	Adams, W.	Motors	June 24, 1884
300,828	Adams, A. W.	Locomotion	June 24, 1884
300,833	Bard, E. F. and Wagner, G. G.	Railway-signals	June 24, 1884

No.	NAME.	CLASS.	DATE.
300,835	Blair, J. B	Magneto-electric	June 24, 1884
300,859	Field, S. D	Telegraphs, printing	June 24, 1884
300,933	Winch, G. L	Batteries, secondary	June 24, 1884
300,950	Cassel, H. R	Separators	June 24, 1884
300,951	Cassel, H. R	Electrolysis	June 24, 1884
300,976	Howard, C. W	Annunciators	June 24, 1884
300,999	Newton, F. M	Lights, arc	June 24, 1884
301,023	Weston, E	Lights, systems and appliances	June 24, 1884
301,024	Weston, E	do	June 24, 1884
301,025	Weston, E	Magneto-electric	June 24, 1884
301,026	Weston, E	Lights, systems and appliances	June 24, 1884
301,027	Weston, E	Regulators	June 24, 1884
301,028	Weston, E	do	June 24, 1884
301,029	Weston, E	Lights, systems and appliances	June 24, 1884
301,030	Weston, E	Cut-outs, thermal	June 24, 1884
301,031	Weston, E	Conductors	June 24, 1884
301,059	Johnson, W. S	Valve-controllers	June 24, 1884
301,076	Weston, E	Lights, arc	June 24, 1884

REISSUES.

10,349	Waring, R. S. and Hyde, J. B	Conductors, reissue of 267,044	July 3, 1883
10,350	Waring, R. S. and Hyde, J. B	Conductors, reissue of 267,045	July 3, 1883
10,351	Waring, R. S	Conductors, reissue of 267,046	July 3, 1883
10,401	Farrell, J	Conductors, reissue of 262,027	Nov. 6, 1883
10,402	Farrell, J	Conductors, reissue of 262,027	Nov. 6, 1883
10,403	Hyde, J. B	Conductors, reissue of 281,999	Nov. 6, 1883
10,404	Hyde, J. B	Conductors, reissue of 281,999	Nov. 6, 1883
10,434	Gassett, O.	Railway-signals, reissue of 266,957	Jan. 8, 1884
10,435	Gassett, O.	Railway-signals, reissue of 266,957	Jan. 8, 1884
10,458	Waring, R. S	Underground lines, reissue of 268,159	Mar. 11, 1884
10,459	Waring, R. S	Underground lines, reissue of 268,159	Mar. 11, 1884

APPENDIX No. III.

PART III.

CONSISTING OF AN

ALPHABETICAL INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1883, to June 30, 1884, inclusive, giving names of Inventors, numbers and dates of Patents, and the sub-class to which each belongs.

ALPHABETICAL INDEX

OF

PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1883, TO JUNE 30, 1884.

No.	NAME.	CLASS.	DATE.
292,193	Abdank-Abakanowicz, B.	Magneto-electric, hand-machines	Jan. 22, 1884
297,655	Abernethy, T. R.	Connectors	Apr. 29, 1884
295,219	Absterdam, J.	Telegraphs, automatic	Mar. 18, 1884
300,828	Adams, A. W.	Locomotion	June 24, 1884
282,030	Adams, I., jr.	Lights, incandescent	July 31, 1883
297,331	Adams, J. S.	Lights, systems and appliances	Apr. 22, 1884
297,332	Adams, J. S.	do	Apr. 22, 1884
297,333	Adams, J. S.	do	Apr. 22, 1884
297,334	Adams, J. S.	do	Apr. 22, 1884
297,335	Adams, J. S.	do	Apr. 22, 1884
297,336	Adams, J. S.	do	Apr. 22, 1884
297,337	Adams, J. S.	do	Apr. 22, 1884
297,338	Adams, J. S.	do	Apr. 22, 1884
296,375	Adams, J. S. and F. U.	do	Apr. 8, 1884
285,778	Adams, W.	Rheostats	Oct. 2, 1883
300,827	Adams, W.	Motors	June 24, 1884
283,944	Ahearn, T.	Telegraphs, fire	Aug. 28, 1883
287,401	Ahearn, T.	Recorders	Oct. 30, 1883
286,571	Allaire, C. B. and Johnson, C. M.	Locomotion	Oct. 16, 1883
290,307	Allen, C. E.	Telephonic telegraphs, systems	Dec. 18, 1883
284,794	Allen, S. M.	Underground lines	Sept. 11, 1883
292,397	Amet, E. H.	Regulators	Jan. 22, 1884
300,338	Amet, E. H.	Valve-controllers	June 17, 1884
280,707	Anders, G. L.	Telephonic telegraphs, systems	July 3, 1883
287,356	Anders, G. L.	do	Oct. 23, 1883
288,609	Anderson, H.	Keys	Nov. 20, 1883
289,205	Anderson, R.	Telegraphs, automatic	Nov. 27, 1883
296,376	Anderson, R.	do	Apr. 8, 1884
289,795	Anderson, R. C.	Batteries, galvanic	Dec. 11, 1883
282,431	Andrews, A. W. K. and Teed, C. R.	Therapeutics, electrodes	July 31, 1883
285,944	Applegate, D. H.	Railway-signals	Oct. 2, 1883
283,058	Arnheim, M.	Applications, tools and machines	Aug. 14, 1883
288,393	Arnold, C. R.	Regulators	Nov. 13, 1883
286,107	Athearn, W. E.	Repeaters	Oct. 2, 1883
293,214	Averell, W. W.	Underground lines	Feb. 12, 1884
292,529	Ayrton, W. E. and Perry, J.	Locomotion	Jan. 29, 1884
295,094	Ayrton, W. E. and Perry, J.	do	Mar. 11, 1884
294,717	Bacon, M.	Motors	Mar. 4, 1884
295,473	Bacon, M.	Locomotion	Mar. 18, 1884
284,354	Bailey, H. L.	Relays and sounders	Sept. 4, 1883
284,355	Bailey, H. L.	Clocks	Sept. 4, 1883
280,708	Bain, F.	Magneto-electric	July 3, 1883
280,709	Bain, F.	Lights, arc	July 3, 1883
283,186	Bain, F.	do	Aug. 14, 1883
284,939	Bain, F.	do	Sept. 11, 1883
287,608	Bain, F.	Magneto-electric	Oct. 30, 1883
287,609	Bain, F.	do	Oct. 30, 1883
287,610	Bain, F.	do	Oct. 30, 1883
287,611	Bain, F.	do	Oct. 30, 1883
288,395	Bain, F.	Applications, tools and machines	Nov. 13, 1883
291,566	Bain, F.	Regulators	Jan. 8, 1884
296,330	Bain, F.	Electro-magnets	Apr. 8, 1884
300,433	Bain, F.	Lights, arc	June 17, 1884
300,676	Bain, F.	do	June 17, 1884
291,433	Baker, W. H.	Cut-outs, electro-magnetic	Jan. 8, 1884
291,434	Baker, W. H.	do	Jan. 8, 1884
287,897	Baldwin, C. W.	Applications, tools and machines	Nov. 6, 1883
297,101	Baldwin, L. C. and Thurston, J. C.	Insulators	Apr. 22, 1884
284,557	Ball, C. E.	Magneto-electric	Sept. 4, 1883

No.	NAME.	CLASS.	DATE.
285,547	Ball, C. E.	Motors	Sept. 25, 1883
285,548	Ball, C. E.	Magneto-electric	Sept. 25, 1883
285,549	Ball, C. E.	do	Sept. 25, 1883
291,973	Ball, C. E.	do	Jan. 15, 1884
294,180	Ball, C. E.	do	Feb. 26, 1884
291,463	Ball, C. E. and Bradford, C. S., jr	Applications, tools and machines	Jan. 1, 1884
281,229	Ball, C. M.	Lights, arc	July 17, 1883
290,199	Ball, C. M.	Magneto-electric	Dec. 18, 1883
294,719	Ball, C. M.	do	Mar. 4, 1884
280,439	Ball, R. E.	do	July 3, 1883
282,833	Bannister, L.	Underground lines	Aug. 7, 1883
300,833	Bard, E. F. and Wagner, G. G.	Railway-signals	June 24, 1884
287,495	Baron, E.	Applications, general	Oct. 30, 1883
284,594	Barrett, J. P.	Telephonic telegraphs, systems	Sept. 11, 1883
284,595	Barrett, J. P.	do	Sept. 11, 1883
290,730	Bartelous, J. V. M.	do	Dec. 25, 1883
281,603	Bartlett, C.	Keys	July 17, 1883
285,784	Bartlett, G. P.	Lights, incandescent	Oct. 2, 1883
287,896	Bartlett, S. H. and Waite, H. E.	Telephonic telegraphs, magnetic	Nov. 6, 1883
294,351	Bartlett, W. A.	Exploding	Mar. 4, 1884
281,000	Batchelor, J. F.	Telephonic telegraphs, details	July 10, 1883
288,157	Baxter, W., jr	Lights, arc	Nov. 6, 1883
294,563	Beach, W. W.	Insulators	Mar. 4, 1884
280,559	Beckwith, S. H.	Motors	July 3, 1883
290,836	Beckwith, W. C.	Lights, arc	Dec. 25, 1883
299,328	Bechler, W. H.	Recorders	May 27, 1884
288,915	Beeman, J. S.	Magneto-electric	Nov. 20, 1883
291,464	Beeman, J. S.	Lights, incandescent	Jan. 1, 1884
292,403	Beeman, J. S.	do	Jan. 22, 1884
288,963	Beeman, J. S., Taylor, W. and King, F.	Regulators	Nov. 20, 1883
291,465	Beeman, J. S., Taylor, W. and King, F.	Batteries, secondary, applications	Jan. 1, 1884
284,365	Beidler, H. M.	Car-brakes	Sept. 4, 1883
294,842	Beile, C.	Magnetic-locks	Mar. 11, 1884
283,747	Belcher, W. A.	Telephonic telegraphs, systems	Aug. 28, 1883
287,089	Bendix, J.	Applications, general	Oct. 23, 1883
293,136	Benjamin, P.	Telephonic telegraphs, details	Feb. 5, 1884
288,971	Benson, G. T.	Lights, incandescent	Nov. 27, 1883
297,909	Bentley, E. M.	Telephonic telegraphs, calls	Apr. 29, 1884
288,916	Bergmann, S.	Batteries, galvanic	Nov. 20, 1883
293,552	Bergmann, S.	Lights, systems and appliances	Feb. 12, 1884
293,553	Bergmann, S.	do	Feb. 12, 1884
298,658	Bergmann, S.	do	May 13, 1884
285,102	Berliner, E.	Telephonic telegraphs, electric	Sept. 18, 1883
291,866	Berliner, E.	do	Jan. 15, 1884
280,340	Bernstein, A.	Lights, incandescent	July 3, 1883
280,341	Bernstein, A.	do	July 3, 1883
283,748	Bernstein, A.	Lights, systems and appliances	Aug. 28, 1883
284,714	Bernstein, A.	Cut-outs, thermal	Sept. 11, 1883
284,715	Bernstein, A.	Circuit-closers	Sept. 11, 1883
284,999	Bernstein, A.	Magneto-electric	Sept. 18, 1883
286,577	Bernstein, A.	Anti-induction devices	Oct. 16, 1883
295,334	Berry, W. and Stuart, P.	Underground lines	Mar. 18, 1884
299,949	Bishoprick, N. J.	Transmitters	June 10, 1884
300,835	Blair, J. B.	Magneto-electric	June 24, 1884
295,223	Blake, F.	Telephonic telegraphs, systems	Mar. 18, 1884
283,062	Blake, F., jr	Telephonic telegraphs, electric	Aug. 14, 1883
286,581	Blake, J. E. and Hall, C. A.	Alarms	Oct. 16, 1883
296,812	Blake, S. N.	Circuit-closers	Apr. 15, 1884
291,867	Blamires, T. H.	Lights, incandescent	Jan. 15, 1884
298,341	Blodgett, A. D.	Recorders	May 13, 1884
284,114	Blodgett, A. D., Read, R. M. and Tirrell, J. P.	Indicators	Aug. 28, 1883
291,670	Body, M.	Electrolysis	Jan. 8, 1884
282,043	Bogart, A. L.	Gas-lighting	July 31, 1883
290,732	Bogart, A. L.	Cut-outs, electro-magnetic	Dec. 25, 1883
292,785	Bogart, A. L.	Cut-outs, thermal	Feb. 5, 1884
292,786	Bogart, A. L.	Alarms, burglar	Feb. 5, 1884
298,663	Bonnett, C. P.	Separators	May 13, 1884
295,614	Boothby, J. W.	Locomotion	Mar. 25, 1884
288,402	Borodoulin, N.	Indicators	Nov. 13, 1883
286,680	Botts, B. N.	Telephonic telegraphs, mechanical	Oct. 16, 1883
289,966	Bouilly, A.	Exploding	Dec. 11, 1883
300,202	Boulrier, A.	Indicators	June 10, 1884
284,171	Boulton, W. H.	Lights, systems and appliances	Sept. 4, 1883
285,004	Bowen, W. J.	Telephonic telegraphs, mechanical	Sept. 18, 1883
286,681	Bowen, W. J.	Insulators	Oct. 16, 1883
288,202	Bowen, W. J.	Bells	Nov. 13, 1883
292,153	Bowen, W. J.	Magneto-electric, hand-machines	Jan. 22, 1884

No.	NAME.	CLASS.	DATE.
290,844	Bowman, C. M.	Connectors	Dec. 25, 1883
293,938	Boyd, D.	Telephonic telegraphs, calls	Feb. 19, 1884
287,800	Brackett, C. F.	Magneto-electric	Nov. 6, 1883
293,556	Bradbury, W.	Motors	Feb. 12, 1884
280,563	Bradley, C. S.	Meters	July 3, 1883
287,501	Bradley, C. S.	do	Oct. 30, 1883
291,141	Bradley, C. S.	Regulators	Jan. 1, 1884
287,617	Brainerd, H. C.	Applications, general	Oct. 30, 1883
287,221	Brasher, T. M.	Exploding	Oct. 23, 1883
290,845	Breckenridge, H. W.	Switches	Dec. 25, 1883
282,489	Breen, T.	Telegraph-poles	Aug. 7, 1883
287,092	Brennan, J. W. and Rousseau, N.	Conductors	Oct. 23, 1883
291,286	Brewer, H. J.	Batteries, galvanic	Jan. 1, 1884
291,871	Brewer, H. J.	do	Jan. 15, 1884
284,805	Brewtnall, A. W.	Lights, systems and appliances	Sept. 11, 1883
287,618	Brigel, L. A.	Circuit-closers	Oct. 30, 1883
283,200	Brissett, H. R. and Howe, J.	Conductors	Aug. 14, 1883
282,699	Brock, W. M.	Telephonic telegraphs, systems	Aug. 7, 1883
295,905	Brott, G. F.	Telegraph-poles	Apr. 1, 1884
291,288	Brown, A. T.	Applications, tools and machines	Jan. 1, 1884
284,808	Brown, E. H.	Alarms, burglar	Sept. 11, 1883
288,002	Brown, F. W.	Underground lines	Nov. 6, 1883
281,175	Brush, C. F.	Batteries, secondary, applications	July 10, 1883
281,176	Brush, C. F.	do	July 10, 1883
285,457	Brush, C. F.	Magneto-electric	Sept. 25, 1883
286,259	Brush, C. F.	Batteries, secondary	Oct. 9, 1883
297,669	Brush, C. F.	Electrolysis	Apr. 29, 1884
293,561	Buck, H. C.	Telephonic telegraphs, electric	Feb. 12, 1884
285,107	Bucker, R.	Lights, arc	Sept. 18, 1883
294,307	Buckingham, C. L.	Regulators	Feb. 26, 1884
293,943	Buckingham, C. L. and Townsend, H. C.	Cut-outs, electro-magnetic	Feb. 19, 1884
293,944	Buckingham, C. L. and Townsend, H. C.	do	Feb. 19, 1884
296,125	Buckingham, C. L. and Townsend, H. C.	do	Apr. 1, 1884
300,341	Buckingham, C. L. and Vansize, W. B.	Telegraphs, printing	June 17, 1884
292,625	Buckley, W. F.	Magneto-electric	Jan. 29, 1884
280,715	Buell, C. E.	Clocks	July 3, 1883
280,906	Buell, C. E.	Telegraphs, fire	July 10, 1883
285,459	Buell, C. E.	do	Sept. 25, 1883
286,529	Buell, C. E.	Annunciators	Oct. 9, 1883
294,008	Buell, C. E.	Telegraphs, fire	Feb. 26, 1884
294,308	Buell, C. E.	do	Feb. 26, 1884
300,443	Buell, C. E.	Transmission of power	June 17, 1884
293,626	Bunker, A. S.	Circuit-closers	Feb. 19, 1884
297,751	Bunnell, J. H.	Magnetic-locks	Apr. 29, 1884
295,855	Burke, C. G.	Telegraphs, dial	Mar. 25, 1884
298,550	Burke, C. G.	Regulators	May 13, 1884
285,008	Burke, J. T.	Applications, tools and machines	Sept. 18, 1883
284,605	Burns, H. A.	Batteries, galvanic	Sept. 11, 1883
282,157	Burton, G. D.	Lights, systems and appliances	July 31, 1883
282,158	Burton, G. D.	do	July 31, 1883
282,841	Busteed, R.	Telephonic telegraphs, systems	Aug. 7, 1883
294,116	Byrs, B.	Railway-signals	Feb. 26, 1884
281,339	Calahan, E. A. and Delany, P. B.	Telegraphs, multiplex	July 17, 1883
291,575	Campbell, A.	Applications, tools and machines	Jan. 8, 1884
297,111	Campbell, A.	do	Apr. 22, 1884
300,210	Campbell, A.	Underground lines	June 10, 1884
290,853	Campbell, H. F.	Conductors, anti-inductive	Dec. 25, 1883
290,854	Campbell, H. F.	do	Dec. 25, 1883
290,971	Campbell, H. F.	do	Dec. 25, 1883
283,073	Capron, J.	Annunciators	Aug. 14, 1883
281,613	Cardwell, G. A.	Telephonic telegraphs, systems	July 17, 1883
294,195	Carley, H. and McKenna, T.	Indicators	Feb. 26, 1884
287,096	Carr, J. E.	Therapeutics, body-wear	Oct. 23, 1883
293,945	Carter, C. H.	Telegraphs, fire	May 20, 1884
292,096	Carter, G. W. L.	Separators	Jan. 15, 1884
288,691	Carty, J. J.	Telephonic telegraphs, calls	Nov. 20, 1883
281,450	Cary, J. H.	do	July 17, 1883
281,614	Cary, J. H.	do	July 17, 1883
285,342	Cary, J. H.	do	Sept. 18, 1883
280,336	Case, W. E.	Batteries, secondary	Dec. 4, 1883
292,469	Case, W. E.	do	Jan. 29, 1884
298,348	Case, W. E.	do	May 13, 1884
300,950	Cassel, H. R.	Separators	June 24, 1884
300,951	Cassel, H. R.	Electrolysis	June 24, 1884
296,676	Chadwick, S.	Telephonic telegraphs, electric	Apr. 8, 1884
289,890	Chambers, J. C.	Conductors	Dec. 11, 1883
289,891	Chambers, J. C.	Underground lines	Dec. 11, 1883

No.	NAME.	CLASS.	DATE.
281,452	Chapman, T. L	Insulators	July 17, 1883
282,165	Cheever, C. A	Locomotion	July 31, 1883
281,240	Cheever, J. H	Telephonic telegraphs, magnetic	July 17, 1883
291,684	Cheever, J. H	do	Jan. 8, 1884
292,203	Cheever, J. H	Telephonic telegraphs, electric	Jan. 22, 1884
280,578	Chester, W. F	Alarms, burglar	July 3, 1883
294,851	Childs, W. A. and Shaw, F	Connectors	Mar. 11, 1884
287,236	Clark, E	Conductors	Oct. 23, 1883
287,237	Clark, E	Underground lines	Oct. 23, 1883
289,620	Clark, J. W	Telephonic telegraphs, mechanical	Dec. 4, 1883
284,382	Clarke, C. L	Indicators	Sept. 4, 1883
285,572	Clarke, C. L	Meters	Sept. 25, 1883
298,175	Clarke, C. L	Batteries, galvanic	May 6, 1884
293,563	Clarke, C. L. and Leigh, J	do	Feb. 12, 1884
280,351	Clay, H	Telephonic telegraphs, systems	July 3, 1883
280,451	Clay, H	Telephonic telegraphs, calls	July 3, 1883
280,580	Clay, H	Telephonic telegraphs, electric	July 3, 1883
288,017	Clay, H	do	Nov. 6, 1883
298,286	Clay, H	do	May 6, 1884
284,277	Cleveland, W. B	Magneto-electric	Sept. 4, 1883
288,310	Cobb, H. B	Underground lines	Nov. 13, 1883
288,311	Cobb, H. B	do	Nov. 13, 1883
293,632	Cobb, H. B	do	Feb. 19, 1884
294,365	Cobb, H. B	do	Mar. 4, 1884
290,209	Comstock, W. P., jr	Railway-signals	Dec. 18, 1883
296,729	Conant, G. P	Bells	Apr. 15, 1884
285,799	Conly, M. S	Magneto-electric, hand-machines	Oct. 2, 1883
298,179	Conner, C	Conductors	May 6, 1884
291,299	Connolly, A. A	Cut-outs, electro-magnetic	Jan. 1, 1884
295,356	Connolly, T. A	Telephonic telegraphs, systems	Mar. 18, 1884
295,983	Cook, F. B. and Graves, F. F	do	Apr. 1, 1884
299,745	Cooke, F. C	Applications, tools and machines	June 3, 1884
281,839	Cooper, C. A	Railway-signals	July 24, 1883
286,393	Copeland, F. A	Telegraphs, fire	Oct. 9, 1883
292,992	Cornelius, O. H. P. and Turner, G. H	Thermostats	Feb. 5, 1884
289,233	Corwin, W. S	Annunciators	Nov. 27, 1883
297,677	Cottrell, H	Insulators	Apr. 29, 1884
286,268	Cowell, E. R. E	Telegraphs, railway-car	Oct. 9, 1883
281,841	Cowles, A. A	Conductors	July 24, 1883
292,539	Cowles, A. A	do	Jan. 29, 1884
295,232	Cowles, A. A	do	Mar. 18, 1884
286,181	Crane, A. S	Clocks	Oct. 9, 1883
288,623	Crane, A. S	do	Nov. 20, 1883
281,672	Crocker, F. B., Curtis, C. G. and Wheeler, S. S	Locomotion	July 24, 1883
281,345	Crockett, C. H	Gas-lighting	July 17, 1883
280,800	Crossley, L. J	Telephonic telegraphs, magnetic	July 10, 1883
292,542	Crossley, L. J., Emmott, W. and Harrison, J. F	Telephonic telegraphs, calls	Jan. 29, 1884
293,426	Cushing, F. W	Meters	Feb. 12, 1884
283,759	Daft, L	Locomotion	Aug. 28, 1883
283,760	Daft, L	Conductors	Aug. 28, 1883
283,761	Daft, L	Locomotion	Aug. 28, 1883
289,895	Daft, L	do	Dec. 11, 1883
289,896	Daft, L	Car-brakes	Dec. 11, 1883
289,897	Daft, L	Locomotion	Dec. 11, 1883
295,365	Davis, A. G	Telephonic telegraphs, systems	Mar. 18, 1884
300,052	Davis, A. G	Batteries, secondary	June 10, 1884
290,752	Davis, B. A	Telegraph-poles	Dec. 25, 1883
294,371	Davis, G. W	Recorders	Mar. 4, 1884
296,146	Davis, W. H	Underground lines	Apr. 1, 1884
299,206	Deavs, C	do	May 27, 1884
293,851	De Castro, J. W	Applications, tools and machines	Feb. 19, 1884
282,446	De Ferranti, S. Z. and Thompson, A	Magneto-electric	July 31, 1883
282,447	De Ferranti, S. Z. and Thompson, A	Meters	July 31, 1883
288,315	De Ferranti, S. Z. and Thompson, A	Regulators	Nov. 13, 1883
288,316	De Ferranti, S. Z. and Thompson, A	Magneto-electric	Nov. 13, 1883
287,641	Delafield, A. F	Batteries, galvanic	Oct. 30, 1883
283,763	Delany, P. B	Conductors	Aug. 28, 1883
283,764	Delany, P. B	do	Aug. 28, 1883
286,273	Delany, P. B	Telegraphs, multiplex	Oct. 9, 1883
286,274	Delany, P. B	do	Oct. 9, 1883
286,275	Delany, P. B	do	Oct. 9, 1883
286,276	Delany, P. B	do	Oct. 9, 1883
286,277	Delany, P. B	do	Oct. 9, 1883
286,278	Delany, P. B	do	Oct. 9, 1883
286,279	Delany, P. B	Telegraphs, duplex	Oct. 9, 1883
286,280	Delany, P. B	do	Oct. 9, 1883
286,281	Delany, P. B	Telegraphs, multiplex	Oct. 9, 1883

No.	NAME.	CLASS.	DATE.
286,282	Delany, P. B. -----	Telegraphs -----	Oct. 9, 1883
290,753	Delany, P. B. -----	Conductors -----	Dec. 25, 1883
282,964	Delaplaine, J. L., Hendrickson, J. G. and Clamer, F. J. -----	Applications, general -----	Aug. 14, 1883
296,148	Delmage, W. A. -----	Applications, tools and machines -----	Apr. 1, 1884
287,914	Dement, M. H. -----	Transmitters -----	Nov. 6, 1883
285,977	Dennis, J. W. -----	Therapeutics, hody-wear -----	Oct. 2, 1883
295,367	Dennis, T. L. -----	Lights, arc -----	Mar. 18, 1884
295,368	Dennis, T. L. -----	Magneto-electric -----	Mar. 18, 1884
288,033	Detrick, C. -----	Underground lines -----	Nov. 6, 1883
286,397	Devlin, J. A. -----	Lights, systems and appliances -----	Oct. 9, 1883
282,861	D'Humay, P. R. de F -----	Lights, incandescent -----	Aug. 7, 1883
299,117	Diehl, P. -----	Magneto-electric -----	May 27, 1884
291,310	Dillon, B. F. -----	Alarms, burglar -----	Jan. 1, 1884
281,249	D'Infeville, G. -----	Telegraphs, quadruplex -----	July 17, 1883
298,557	Diolot, S. -----	Clocks -----	May 13, 1884
282,449	Dodge, T. H. -----	Lightning-rods -----	July 31, 1883
289,076	Dodge, T. H. -----	do -----	Nov. 27, 1883
298,357	Dodge, T. H. -----	do -----	May 13, 1884
288,215	Dolbear, A. E. -----	Telephonic telegraphs, electric -----	Nov. 13, 1883
295,371	Doolittle, G. -----	Connectors -----	Mar. 18, 1884
289,077	Doolittle, G. and Stanley, H. D. -----	Conductors -----	Nov. 27, 1883
297,683	Doolittle, T. B. -----	Anti-induction devices -----	Apr. 29, 1884
298,559	Doolittle, T. B. -----	Telephonic telegraphs, systems -----	May 13, 1884
298,072	Dorsett, D. H. -----	Insulators -----	May 6, 1884
291,996	Dorsett, D. H., Morris, J. E. and Williams, B. -----	Underground lines -----	Jan. 15, 1884
298,073	Doyle, J. -----	Rheostats -----	May 6, 1884
285,589	Doyle, W. L. -----	Railway-signals -----	Sept. 25, 1883
280,916	Drake, C. C. -----	Lightning-arresters -----	July 10, 1883
299,467	Drake, D. E. -----	Connectors -----	May 27, 1884
287,111	Drawbaugh, D. -----	Telephonic telegraphs, relays and repeaters -----	Oct. 23, 1883
290,978	Drawbaugh, D. -----	Telephonic telegraphs, magnetic -----	Dec. 25, 1883
290,979	Drawbaugh, D. -----	do -----	Dec. 25, 1883
290,980	Drawbaugh, D. -----	Telephonic telegraphs, electric -----	Dec. 25, 1883
291,311	Drawbaugh, D. -----	do -----	Jan. 1, 1884
291,312	Drawbaugh, D. -----	do -----	Jan. 1, 1884
291,472	Drawbaugh, D. -----	do -----	Jan. 1, 1884
293,154	Drawbaugh, D. -----	Telephonic telegraphs, magnetic -----	Feb. 5, 1884
295,741	Drawbaugh, D. -----	Telephonic telegraphs, electric -----	Mar. 25, 1884
295,742	Drawbaugh, D. -----	do -----	Mar. 25, 1884
297,578	Drawbaugh, D. -----	do -----	Apr. 29, 1884
297,579	Drawbaugh, D. -----	do -----	Apr. 29, 1884
298,676	Drawbaugh, D. -----	do -----	May 13, 1884
298,677	Drawbaugh, G. W. -----	do -----	May 13, 1884
288,555	Dryer, B. A. -----	Underground lines -----	Nov. 13, 1883
281,471	Drysdale, W. A. -----	Gas-lighting -----	July 17, 1883
287,509	Du Bois, J. S. -----	Underground lines -----	Oct. 30, 1883
295,913	Dudley, W. J. -----	Telephonic telegraphs, calls -----	Apr. 1, 1884
288,556	Dummer, E. -----	Railway-signals -----	Nov. 13, 1883
280,365	Dunand, A. -----	Telephonic telegraphs, electric -----	July 3, 1883
280,366	Dunham, T. H. -----	Conductors -----	July 3, 1883
286,595	Durant, G. F. -----	Telephonic telegraphs, systems -----	Oct. 16, 1883
297,072	Durhrow, G. W. -----	Lights, systems and appliances -----	Apr. 15, 1884
280,919	Du Shane, J. -----	Underground lines -----	July 10, 1883
290,550	Du Shane, J. -----	Magneto-electric -----	Dec. 18, 1883
296,319	Duwelius, A. L. -----	Car-brakes -----	Apr. 8, 1884
287,647	Dyer, J. W. -----	Lightning-arresters -----	Oct. 30, 1883
289,629	Dyer, J. W. -----	do -----	Dec. 4, 1883
289,630	Dyer, J. W. -----	do -----	Dec. 4, 1883
292,796	Dyer, J. W. -----	do -----	Feb. 5, 1884
287,757	Dyer, R. N. -----	Telegraphs, fire -----	Oct. 30, 1883
287,758	Dyer, R. N. and Seely, H. W. -----	Heaters -----	Oct. 30, 1883
294,455	Earle, H. A. and Goltstein, E. -----	Lights, arc -----	Mar. 4, 1884
290,551	Easton, J. W. -----	Magneto-electric -----	Dec. 18, 1883
289,631	Eaton, A. K. -----	Batteries, thermal -----	Dec. 4, 1883
292,161	Eaton, A. K. -----	Meters -----	Jan. 22, 1884
292,212	Eckert, W. H. -----	Telephonic telegraphs, electric -----	Jan. 22, 1884
282,867	Eckert, W. H. and Seely, J. A. -----	do -----	Aug. 7, 1883
288,627	Eckert, W. H. and Seely, J. A. -----	Telephonic telegraphs, systems -----	Nov. 20, 1883
288,820	Eckert, W. H., Seely, J. A. and Eckert, E. A. -----	do -----	Nov. 13, 1883
280,727	Edison, T. A. -----	Lights, systems and appliances -----	July 3, 1883
281,349	Edison, T. A. -----	Regulators -----	July 17, 1883
281,350	Edison, T. A. -----	do -----	July 17, 1883
281,351	Edison, T. A. -----	Magneto-electric -----	July 17, 1883
281,352	Edison, T. A. -----	Meters -----	July 17, 1883
281,353	Edison, T. A. -----	Magneto-electric -----	July 17, 1883
282,287	Edison, T. A. -----	Magneto-electric, hand-machines -----	July 31, 1883

No.	NAME.	CLASS.	DATE.
283,983	Edison, T. A	Lights, systems and appliances	Aug. 28, 1883
283,984	Edison, T. A	do	Aug. 28, 1883
283,985	Edison, T. A	do	Aug. 28, 1883
283,986	Edison, T. A	do	Aug. 28, 1883
287,511	Edison, T. A	Regulators	Oct. 30, 1883
287,512	Edison, T. A	Magneto-electric	Oct. 30, 1883
287,513	Edison, T. A	do	Oct. 30, 1883
287,514	Edison, T. A	do	Oct. 30, 1883
287,515	Edison, T. A	Lights, systems and appliances	Oct. 30, 1883
287,516	Edison, T. A	Magneto-electric	Oct. 30, 1883
287,517	Edison, T. A	Lights, systems and appliances	Oct. 30, 1883
287,518	Edison, T. A	Lights, incandescent	Oct. 30, 1883
287,519	Edison, T. A	do	Oct. 30, 1883
287,520	Edison, T. A	do	Oct. 30, 1883
287,521	Edison, T. A	Magneto-electric	Oct. 30, 1883
287,522	Edison, T. A	Lights, systems and appliances	Oct. 30, 1883
287,523	Edison, T. A	do	Oct. 30, 1883
287,524	Edison, T. A	Regulators	Oct. 30, 1883
288,318	Edison, T. A	do	Nov. 13, 1883
293,432	Edison, T. A	Magneto-electric	Feb. 12, 1884
293,433	Edison, T. A	Conductors	Feb. 12, 1884
293,434	Edison, T. A	Lights, incandescent	Feb. 12, 1884
293,435	Edison, T. A	Meters	Feb. 12, 1884
297,580	Edison, T. A	Lights, arc	Apr. 29, 1884
297,581	Edison, T. A	Lights, systems and appliances	Apr. 29, 1884
297,582	Edison, T. A	Magneto-electric	Apr. 29, 1884
297,583	Edison, T. A	do	Apr. 29, 1884
297,584	Edison, T. A	do	Apr. 29, 1884
297,585	Edison, T. A	Lights, incandescent	Apr. 29, 1884
297,586	Edison, T. A	Conductors	Apr. 29, 1884
297,587	Edison, T. A	Magneto-electric	Apr. 29, 1884
298,679	Edison, T. A	Lights, systems and appliances	May 13, 1884
298,954	Edison, T. A	Magneto-electric	May 20, 1884
298,955	Edison, T. A	do	May 20, 1884
298,956	Edison, T. A	Regulators	May 20, 1884
287,525	Edison, T. A. and Clarke, C. L	Lights, systems and appliances	Oct. 30, 1883
288,217	Edmunds, H., jr	Lights, incandescent	Nov. 13, 1883
288,218	Edmunds, H., jr	do	Nov. 13, 1883
290,406	Edmunds, H., jr	Lights, systems and appliances	Dec. 18, 1883
290,407	Edmunds, H., jr	do	Dec. 18, 1883
291,170	Edmunds, H., jr	Conductors	Jan. 1, 1884
291,171	Edmunds, H., jr	Lights, incandescent	Jan. 1, 1884
281,985	Edwards, E. A	Magneto-electric	July 24, 1883
282,969	Egan, C.	Telephonic telegraphs, electric	Aug. 14, 1883
286,796	Egleston, T.	Conductors	Oct. 16, 1883
293,956	Ells, B. E. J.	Telegraphs, quadruplex	Feb. 19, 1884
284,288	Elphinstone, W. B. F. and Vincent, C. W	Magneto-electric	Sept. 4, 1883
288,042	Elphinstone, W. B. F. and Vincent, C. W	do	Nov. 6, 1883
287,649	Enos, J. A	Recorders	Oct. 30, 1883
298,361	Erling, P. R.	Applications, general	May 13, 1884
294,021	Faber, C.	Separators	Feb. 26, 1884
292,999	Fairbanks, L. S.	Telephonic telegraphs, calls	Feb. 5, 1884
285,602	Farmer, M. G.	Batteries, secondary, applications	Sept. 25, 1883
290,873	Farmer, M. G.	do	Dec. 25, 1883
281,478	Farnham, I. H.	Telephonic telegraphs, systems	July 17, 1883
294,212	Farnham, I. H.	Annunciators	Feb. 26, 1884
300,353	Farrar, J. N. and Morse, C. W	Transmitters	June 17, 1884
287,812	Felton, L. E.	Batteries, galvanic	Nov. 6, 1883
285,245	Fenn, J. E.	Telephonic telegraphs, systems	Sept. 18, 1883
299,970	Fenner, H. N.	Telegraphs, fire	June 10, 1884
282,294	Field, S. D.	Telegraphs, dynamo	July 31, 1883
282,295	Field, S. D.	do	July 31, 1883
282,296	Field, S. D.	do	July 31, 1883
282,297	Field, S. D.	Magneto-electric	July 31, 1883
287,265	Field, S. D.	Telegraphs, printing	Oct. 23, 1883
287,266	Field, S. D.	do	Oct. 23, 1883
287,267	Field, S. D.	do	Oct. 23, 1883
288,786	Field, S. D.	Telegraphs, dynamo	Nov. 20, 1883
290,556	Field, S. D.	Telegraphs, printing	Dec. 18, 1883
290,557	Field, S. D.	do	Dec. 18, 1883
290,635	Field, S. D.	do	Dec. 18, 1883
291,317	Field, S. D.	Underground lines	Jan. 1, 1884
291,318	Field, S. D.	Telegraphs, duplex	Jan. 1, 1884
291,705	Field, S. D.	Telegraphs, printing	Jan. 8, 1884
293,959	Field, S. D.	do	Feb. 19, 1884
300,859	Field, S. D.	do	June 24, 1884
285,983	Finch, R. S.	Telegraphs, fire	Oct. 2, 1883

No.	NAME.	CLASS.	DATE.
300,238	Finger, L.	Railway-signals	June 10, 1884
290,558	Finn, J. L.	Lightning-rods	Dec. 18, 1883
285,353	Finney, J. R.	Locomotion	Sept. 18, 1883
283,334	Firman, L. B.	Telephonic telegraphs, systems	Aug. 14, 1883
295,531	Fish, G. W.	do	Mar. 25, 1884
285,805	Fiske, B. A.	Telegraphs, dial	Oct. 2, 1883
286,801	Fiske, B. A. and Mott, S. D.	Insulators	Oct. 16, 1883
285,249	Fitch, F. K.	Magneto-electric	Sept. 18, 1883
292,293	Fitch, F. K.	Lights, arc	Jan. 22, 1884
293,441	Fitch, F. K.	Magneto-electric	Feb. 12, 1884
286,916	Fitz Gerald, D. G.	Lights, incandescent	Oct. 16, 1883
296,546	Flad, H.	Car-brakes	Apr. 8, 1884
296,547	Flad, H.	Connectors	Apr. 8, 1884
296,549	Flad, H.	Car-brakes	Apr. 8, 1884
284,289	Fleming, J. A.	Conductors	Sept. 4, 1883
283,590	Flint, E., jr.	Annunciators	Aug. 21, 1883
284,457	Fottrell, J.	Conductors	Mar. 4, 1884
281,859	Fox, E.	Locomotion	July 24, 1883
285,807	Fox, St. G. L.	Batteries, secondary	Oct. 2, 1883
281,680	Frank, C. H.	Telegraphs, fire	July 24, 1883
281,048	Frasch, H.	Lights, arc	July 10, 1883
286,288	Frasch, H.	Applications, general	Oct. 9, 1883
286,917	Fraser, A. C.	Relays and sounders	Oct. 16, 1883
281,049	Freeman, W. P.	Magneto-electric	July 10, 1883
287,654	Freeman, W. P.	Indicators	Oct. 30, 1883
289,823	Freeman, W. P.	Lights, arc	Dec. 11, 1883
290,025	Freeman, W. P.	Regulators	Dec. 11, 1883
294,027	Freeman, W. P.	Lights, arc	Feb. 26, 1884
289,768	Freund, G.	Exploding	Dec. 4, 1883
295,534	Frick, F. G.	Magneto-electric	Mar. 25, 1884
286,414	Fuller, G. W.	do	Oct. 9, 1883
286,415	Fuller, G. W.	do	Oct. 9, 1883
286,416	Fuller, G. W.	do	Oct. 9, 1883
294,458	Fuller, G. W.	do	Mar. 4, 1884
283,995	Gardanier, G. W.	Telegraphs, quadruplex	Aug. 28, 1883
298,571	Gardanier, G. W.	do	May 13, 1884
287,015	Gardner, W. F.	Clocks	Oct. 23, 1883
282,879	Garrett, D.	Electrolysis	Aug. 7, 1883
291,590	Gary, W. W.	Railway-signals	Jan. 8, 1884
283,231	Gassett, O.	do	Aug. 14, 1883
283,232	Gassett, O.	do	Aug. 14, 1883
289,827	Gassett, O.	do	Dec. 11, 1883
292,743	Gassett, O.	do	Jan. 29, 1884
292,744	Gassett, O.	do	Jan. 29, 1884
293,571	Gassett, O.	Bells	Feb. 12, 1884
294,030	Gassett, O.	Railway-signals	Feb. 26, 1884
284,409	Gatehouse, T. E.	Lights, incandescent	Sept. 4, 1883
297,377	Gatehouse, T. E.	do	Apr. 22, 1884
297,924	Ganlard, L. and Gihbs, J. D.	Induction-coils	Apr. 29, 1884
282,187	Giel, F. S.	Regulators	July 31, 1883
281,262	Gilbert, J. W. and Starr, E. T.	Batteries, galvanic	July 17, 1883
298,080	Gilchrist, J. D.	Annunciators	May 6, 1884
289,642	Giles, C. K.	Applications, general	Dec. 4, 1883
281,052	Giles, J. E.	Magneto-electric	July 10, 1883
287,661	Giles, J. E.	do	Oct. 30, 1883
288,051	Giles, J. E.	do	Nov. 6, 1883
288,790	Giles, J. E.	Underground lines	Nov. 20, 1883
290,412	Giles, J. E.	Regulators	Dec. 18, 1883
293,318	Giles, J. E.	Lights, systems and appliances	Feb. 12, 1884
296,829	Gillett, W.	Telephonic telegraphs, electric	Apr. 15, 1884
293,160	Gilliland, E. T.	Magneto-electric, hand-machines	Feb. 5, 1884
293,161	Gilliland, E. T.	Telephonic telegraphs, systems	Feb. 5, 1884
293,162	Gilliland, E. T.	Magneto-electric, hand-machines	Feb. 5, 1884
296,330	Gilliland, J. F.	Telephonic telegraphs, mechanical	Apr. 8, 1884
296,401	Gillon, L.	Applications, tools and machines	Apr. 8, 1884
288,629	Gilman, C. C.	Underground lines	Nov. 20, 1883
281,864	Gilpin, J. F.	Conductors	July 24, 1883
287,532	Goddard, C.	Underground lines	Oct. 30, 1883
287,533	Goddard, C.	do	Oct. 30, 1883
290,413	Goebel, C. H.	do	Dec. 18, 1883
290,414	Goebel, C. H.	do	Dec. 18, 1883
290,415	Goebel, C. H.	do	Dec. 18, 1883
290,416	Goebel, C. H.	do	Dec. 18, 1883
297,926	Goebel, C. H.	do	Apr. 29, 1884
297,927	Goebel, C. H.	do	Apr. 29, 1884
297,928	Goebel, C. H.	Lights, systems and appliances	Apr. 29, 1884
297,929	Goebel, C. H.	Underground lines	Apr. 29, 1884

No.	NAME.	CLASS.	DATE.
296,160	Goodbody, A. G	Connectors	Apr. 1, 1884
281,224	Goodsell, B. H., Adamson, C., and Hering, C. O.	Applications, tools and machines	July 10, 1883
284,292	Gordon, J. E. H	Magneto-electric	Sept. 4, 1883
287,664	Gordon, W. C	Annunciators	Oct. 30, 1883
294,613	Gramme, Z. T	Magneto-electric	Mar. 4, 1884
300,068	Gravier, A. I	Lights, systems and appliances	June 10, 1884
284,003	Gray, E. and Pope, F. L	Telephonic telegraphs, calls	Aug. 23, 1883
290,769	Gray, G	Conductors, anti-inductive	Dec. 25, 1883
285,027	Gray, J	Magneto-electric	Sept. 18, 1883
284,413	Green, I. M. and Birch, J. P	Underground lines	Sept. 4, 1883
297,385	Greene, E. M	Cut-outs, electro-magnetic	Apr. 22, 1884
291,716	Greivcs, J	Conductors	Jan. 8, 1884
291,717	Greives, J	do	Jan. 8, 1884
291,718	Greives, J	do	Jan. 8, 1884
291,715	Greives, J. and Blcso, J. H	Conductors, anti-inductive	Jan. 8, 1884
282,073	Greve, H	Separators	July 31, 1883
296,407	Griffin, J	Lightning-arresters	Apr. 8, 1884
282,884	Guest, J. H	Lights, systems and appliances	Aug. 7, 1884
297,688	Guillaume, F. C	Conductors, anti-inductive	Apr. 29, 1884
296,331	Gumpel, C. G	Batteries, secondary	Apr. 8, 1884
291,721	Hadden, W	Railway-signals	Jan. 8, 1884
286,809	Haid, A	Batteries, galvanic	Oct. 16, 1883
294,463	Haid, A	Batteries, secondary	Mar. 4, 1884
294,464	Haid, A	do	Mar. 4, 1884
294,465	Haid, A	do	Mar. 4, 1884
296,164	Haid, A	do	Apr. 1, 1884
296,558	Haines, D. S. and Lake, S. D	Insulators	Apr. 8, 1884
296,688	Haines, D. S. and Lake, S. D	do	Apr. 8, 1884
293,242	Hale, A. W	do	Feb. 12, 1884
294,384	Hale, A. W	do	Mar. 4, 1884
284,959	Halkyard, W	Conductors	Sept. 11, 1883
289,092	Halkyard, W	do	Nov. 27, 1883
284,840	Hall, A. W	Railway-signals	Sept. 11, 1883
284,841	Hall, A. W	do	Sept. 11, 1883
284,842	Hall, A. W	do	Sept. 11, 1883
282,190	Hall, H. D	Applications, general	July 31, 1883
288,175	Hamblet, J	Clocks	Nov. 6, 1883
288,795	Hamon, A. H	Conductors	Nov. 20, 1883
285,615	Hannay, J. B	Incrustation	Sept. 25, 1883
292,806	Hanson, J. P. and Christensen, J. P	Alarms, burglar	Feb. 5, 1884
292,807	Hanson, J. P. and Christensen, J. P	do	Feb. 5, 1884
289,411	Happersberger, F	Annunciators	Dec. 4, 1883
289,649	Hardie, J. W	Applications, general	Dec. 4, 1883
298,751	Harrington, F. S	Conductors, anti-inductive	May 20, 1884
280,616	Harris, W. P	Recorders	July 3, 1883
281,362	Hart, L. H	Keys	July 17, 1883
284,297	Hartwell, N. W	Telegraphs	Sept. 4, 1883
283,482	Haskins, C. D	Lights, arc	Aug. 21, 1883
286,923	Haskins, C. D	Telephonic telegraphs, electric	Oct. 16, 1883
293,171	Haskins, C. D	Telephonic telegraphs, systems	Feb. 5, 1884
299,926	Haskins, C. H	do	June 3, 1884
290,182	Hastings, E. B	Separators	Dec. 11, 1883
300,470	Hathaway, M. P	Underground lines	June 17, 1884
286,925	Hauss, D. J., McNamara, T. E. and Zerbe, J. S	Lights, arc	Oct. 16, 1883
292,113	Hayes, C. H	do	Jan. 15, 1884
282,634	Hayes, P. S	Batteries, galvanic	Aug. 7, 1883
300,253	Hazazer, E. W	Bells	June 10, 1884
294,128	Healy, O	Applications, general	Feb. 26, 1884
281,363	Heap, D. P	Lights, systems and appliances	July 17, 1883
284,420	Hedges, K. W	do	Sept. 4, 1883
280,472	Helman, O. A	Alarms, burglar	July 3, 1883
293,735	Henderson, J. C	Applications, tools and machines	Feb. 19, 1884
294,618	Henderson, J. C	Locomotion	Mar. 4, 1884
281,064	Hendley, W	Underground lines	July 10, 1883
281,220	Hendley, W	do	July 10, 1883
286,698	Henley, W. T	Conductors	Oct. 16, 1883
295,249	Henry, J. C	Telegraphs, fire	Mar. 18, 1884
293,613	Herotizky, G. M	Clocks	Feb. 12, 1884
280,474	Herrmann, L. A. F	Conductors	July 3, 1883
289,834	Herzog, F. B	Telephonic telegraphs, calls	Dec. 11, 1883
292,115	Herzog, F. B	Annunciators	Jan. 15, 1884
299,070	Herzog, F. B	Telephonic telegraphs, systems	May 20, 1884
288,570	Hess, A. T	Telegraphs, fire	Nov. 13, 1883
300,607	Hewett, R. J	Annunciators	June 17, 1884
281,877	Hewitt, R., jr	Thermostats	July 24, 1883
287,286	Hewitt, W	Lightning-rods	Oct. 23, 1883

No.	NAME.	CLASS.	DATE.
287,929	Hewitt, W	Lightning-rods	Nov. 6, 1883
293,736	Hibbard, A. S	Telephonic telegraphs, systems	Feb. 19, 1884
297,397	Hildebrand, E. O	Underground lines	Apr. 22, 1884
295,759	Hill, J	Telegraphs, fire	Mar. 25, 1884
295,760	Hill, J	Thermostats	Mar. 25, 1884
292,310	Himmer, I. C	Batteries, galvanic	Jan. 22, 1884
298,205	Himmer, I. C. and Weisgerber, W. F	Clocks	May 6, 1884
294,131	Himmer, V	do	Feb. 26, 1884
294,132	Himmer, V	do	Feb. 26, 1884
298,301	Himmer, V	do	May 6, 1884
282,317	Hinds, C. H.	Lights, systems and appliances	July 31, 1883
282,318	Hinds, C. H.	do	July 31, 1883
282,890	Hinds, C. H.	Gas-lighting	Aug. 7, 1883
291,731	Hinds, C. H.	Lights, systems and appliances	Jan. 8, 1884
287,830	Hinsdale, C. C	Insulators	Nov. 6, 1883
298,753	Hinsdale, C. C	do	May 20, 1884
292,311	Hinton, J. R. H	Telegraphs, fire	Jan. 22, 1884
286,437	Hirley, J. V	Conductors	Oct. 9, 1883
298,692	Hoag, G. M	Lights, systems and appliances	May 13, 1884
294,038	Hochhausen, W	Regulators	Feb. 26, 1884
294,039	Hochhausen, W	do	Feb. 26, 1884
294,040	Hochhausen, W	do	Feb. 26, 1884
294,041	Hochhausen, W	do	Feb. 26, 1884
294,042	Hochhausen, W	Lights, arc	Feb. 26, 1884
294,043	Hochhausen, W	Magneto-electric	Feb. 26, 1884
294,044	Hochhausen, W	Lights, incandescent	Feb. 26, 1884
294,045	Hochhausen, W	Lights, systems and appliances	Feb. 26, 1884
295,552	Hochhausen, W	Regulators	Mar. 25, 1884
287,678	Holbon, R	Magneto-electric	Oct. 30, 1883
282,319	Holbrook, Z. S	Locomotion	July 31, 1883
284,223	Hollingshead, W. B	Conductors	Sept. 4, 1883
282,521	Holtzer, C. W	Lights, incandescent	Aug. 7, 1883
289,837	Holzer, W	Lights, systems and appliances	Dec. 11, 1883
289,838	Holzer, W	do	Dec. 11, 1883
293,879	Holzer, W	do	Feb. 19, 1884
295,398	Holzer, W	do	Mar. 18, 1884
291,478	Horner, J. W	Underground lines	Jan. 1, 1884
283,343	Houston, E. J	Magneto-electric	Aug. 14, 1883
286,612	Houston, E. J	do	Oct. 16, 1883
296,569	Houston, E. J. and Thomson, E.	do	Apr. 8, 1884
299,546	Hovenden, G. E. and E. R	Annunciators	June 3, 1884
285,267	How, W. S	Underground lines	Sept. 18, 1883
300,976	Howard, C. W	Annunciators	June 24, 1884
292,433	Howell, T. J	Batteries, galvanic	Jan. 22, 1884
298,383	Howes, A. P	Telephonic telegraphs, calls	May 13, 1884
291,849	Howson, H.	Underground lines	Jan. 8, 1884
284,425	Huck, C.	Conductors, anti-inductive	Sept. 4, 1883
284,426	Huck, C.	do	Sept. 4, 1883
287,380	Hughes, C. T	Heaters	Oct. 23, 1883
298,975	Hunter, J	Telegraph-poles	May 20, 1884
299,073	Husbands, J. D	Telephonic telegraphs, electric	May 20, 1884
299,074	Husbands, J. D	Telephonic telegraphs, magnetic	May 20, 1884
285,269	Huston, H. E	Telephonic telegraphs, mechanical	Sept. 18, 1883
294,238	Huston, H. E	do	Feb. 26, 1884
281,999	Hyde, J. B.	Conductors	July 24, 1883
284,854	Hyde, J. B.	Underground lines	Sept. 11, 1883
284,855	Hyde, J. B.	do	Sept. 11, 1883
290,057	Hyde, J. B.	Conductors	Dec. 11, 1883
290,058	Hyde, J. B.	do	Dec. 11, 1883
290,881	Hyde, J. B.	do	Dec. 25, 1883
289,539	Jackson, C. A	Telephonic telegraphs, systems	Dec. 4, 1883
289,540	Jackson, C. A	Motors	Dec. 4, 1883
289,541	Jackson, C. A	do	Dec. 4, 1883
298,209	Jackson, C. H	Railway-signals	May 6, 1884
287,288	Jacob, F	Conductors	Oct. 23, 1883
297,406	Jamieson, W	Conductors, anti-inductive	Apr. 22, 1884
293,330	Jenkins, E. H	Gas-lighting	Feb. 12, 1884
299,551	Joel, H. F	Magneto-electric	June 3, 1884
295,644	Johnson, A. F	Telegraphs, printing	Mar. 25, 1884
287,291	Johnson, A. M	Recorders	Oct. 23, 1883
288,443	Johnson, L	Conductors	Nov. 13, 1883
281,884	Johnson, W. S	Thermostats	July 24, 1883
283,736	Johnson, W. S	Transmitters	Aug. 21, 1883
286,445	Johnson, W. S	Meters	Oct. 9, 1883
297,937	Johnson, W. S	Valve-controllers	Apr. 29, 1884
299,552	Johnson, W. S	Indicators	June 3, 1884
301,059	Johnson, W. S	Valve-controllers	June 24, 1884

No.	NAME.	CLASS.	DATE.
299,397	Jones, E. and A. E.	Lights, arc	May 27, 1884
300,781	Jones, F. W.	Telegraphs, duplex	June 24, 1884
293,886	Jones, J. B.	Electrolysis	Feb. 19, 1884
292,317	Joseph, T. B.	Applications, general	Jan. 22, 1884
295,873	Jungerman, E.	Clocks	Mar. 25, 1884
290,689	Kampfe, R.	Car-brakes	Dec. 25, 1883
280,933	Karshner, W. W.	Batteries, galvanic	July 10, 1883
299,649	Keep, W. F. and W. H.	Applications, general	June 3, 1884
281,698	Keith, N. S.	Lights, arc	July 24, 1883
292,119	Kessler, J. K.	Electrolysis	Jan. 15, 1884
292,753	Kessler, J. K.	do	Jan. 29, 1884
294,051	Kessler, J. K.	do	Feb. 26, 1884
290,894	Kettell, J. F.	Clocks	Dec. 25, 1883
288,818	Kimball, A. S.	Magneto-electric	Nov. 20, 1883
295,652	Kinder, A. H.	Dental instruments	Mar. 25, 1884
293,179	King, C. W. and Cliff, A.	Applications, tools and machines	Feb. 5, 1884
283,492	Kinsman, F. E.	Cut-outs, thermal	Aug. 21, 1883
288,449	Kinsman, J. H.	Telephonic telegraphs, calls	Nov. 13, 1883
295,559	Kitson, G. L.	Connectors	Mar. 25, 1884
297,699	Klein, J. M.	Insulators	Apr. 29, 1884
297,269	Klein, P. H., jr.	Lights, systems and appliances	Apr. 22, 1884
291,360	Knight, J. K.	Railway-signals	Jan. 1, 1884
282,459	Knowles, E. R.	Magneto-electric	July 31, 1883
282,460	Knowles, E. R.	Lights, incandescent	July 31, 1883
282,461	Knowles, E. R.	Lights, arc	July 31, 1883
288,346	Knowles, E. R.	do	Nov. 13, 1883
291,850	Knowles, E. R.	Batteries, secondary	Jan. 8, 1884
282,534	Knowles, E. R. and Idell, F. E.	Lights, incandescent	Aug. 7, 1883
292,121	Knowles, E. R. and Idell, F. E.	Magneto-electric	Jan. 15, 1884
292,324	Knowles, E. R. and Idell, F. E.	Lights, incandescent	Jan. 22, 1884
300,713	Knudson, A. A.	Telephonic telegraphs, mechanical	June 17, 1884
286,829	Kohmescher, J. H.	Conductors	Oct. 16, 1883
288,454	Kruesi, J.	do	Nov. 13, 1883
296,185	Kruesi, J.	Underground lines	Apr. 1, 1884
289,918	Kühmaier, F.	Motors	Dec. 11, 1883
288,068	Kuhnminich, J.	Separators	Nov. 6, 1883
298,479	Kurtz, A. B.	Telephonic telegraphs, mechanical	May 13, 1884
296,849	Lachlan, W.	Batteries, secondary	Apr. 15, 1884
284,862	Lackersteen, M. H.	Applications, general	Sept. 11, 1883
300,269	Lamar, J. S.	Relays and sounders	June 10, 1884
288,348	Lane, F.	Railway-signals	Nov. 13, 1883
287,300	Lanc, T. W.	Telephonic telegraphs, systems	Oct. 23, 1883
287,301	Lane, T. W.	do	Oct. 23, 1883
293,256	Langureau, J.	Lights, incandescent	Feb. 12, 1884
300,615	Lannert, J. A.	Magneto-electric	June 17, 1884
297,273	Lawson, J. W.	do	Apr. 22, 1884
289,665	Lazelle, J. L.	Alarms, burglar	Dec. 4, 1883
281,891	Lea, J.	Lights, arc	July 24, 1883
285,494	Le Grande, W. W.	Conductors	Sept. 25, 1883
287,446	Le Grande, W. W.	Railway-signals	Oct. 30, 1883
291,063	Leitch, A. E.	Annunciators	Jan. 1, 1884
284,643	Lenderoth, W.	Underground lines	Sept. 11, 1883
286,208	Létrange, L.	Applications, general	Oct. 9, 1883
291,209	Lever, C.	Regulators	Jan. 1, 1884
300,489	Lever, C.	Lights, arc	June 17, 1884
289,425	Levison, W. G.	Lights, systems and appliances	Dec. 4, 1883
286,833	Levy, M.	Regulators	Oct. 16, 1883
286,834	Levy, M.	do	Oct. 16, 1883
297,819	Lewis, C. W.	Keys	Apr. 29, 1884
298,593	Lewis, J. S.	Insulators	May 13, 1884
298,594	Lewis, J. S.	do	May 13, 1884
283,624	Lister, J. T.	Magneto-electric	Aug. 21, 1883
300,490	Lockwood, C. S.	Recorders	June 17, 1884
281,895	Lockwood, T. D.	Telephonic telegraphs, electric	July 24, 1883
283,626	Lockwood, T. D.	Telephonic telegraphs, calls	Aug. 21, 1883
290,898	Lockwood, T. D.	Telephonic telegraphs, relays and repeaters	Dec. 25, 1883
291,915	Lockwood, T. D.	Telephonic telegraphs, systems	Jan. 15, 1884
296,588	Lockwood, T. D.	Telephonic telegraphs, calls	Apr. 8, 1884
292,335	Lockwood, T. D. and Lane, T. W.	Telephonic telegraphs, magnetic	Jan. 22, 1884
283,123	Lockwood, W. C.	Telephonic telegraphs, electric	Aug. 14, 1883
297,820	Loder, J. H.	Lights, arc	Apr. 29, 1884
289,008	Long, M. W.	Railway-signals	Nov. 27, 1883
280,838	Loomis, B.	Applications, general	July 10, 1883
281,381	Loring, C. T.	Telephonic telegraphs, systems	July 17, 1883
289,353	Loring, C. T.	do	Nov. 27, 1883
283,498	Loryea, A. M. and Palmer, C. H.	Magneto-electric	Aug. 21, 1883
284,031	Lothrop, C. H.	Cut-outs, mechanical	Aug. 28, 1883

No.	NAME.	CLASS.	DATE.
292,930	Lubke, A. E. G.	Motors	Feb. 5, 1884
293,758	Lubke, A. E. G.	Magneto-electric	Feb. 19, 1884
296,857	Lubke, A. E. G.	do	Apr. 15, 1884
290,441	Lüngen, A.	Gas-lighting	Dec. 18, 1883
294,892	Lungren, C. M.	Magneto-electric	Mar. 11, 1884
300,095	Lynn, M. N.	Lights, arc	June 10, 1884
283,716	Lyon, H.	Transmitters	Aug. 21, 1883
294,482	Lytile, F. M. and McCoy, J. A.	Telephonic telegraphs, systems	Mar. 4, 1884
284,216	Lytile, H. B.	Connectors	Sept. 4, 1883
299,561	Lytile, H. B. and Carty, J. J.	Clocks	June 3, 1884
299,562	Lytile, H. B. and Carty, J. J.	do	June 3, 1884
289,545	Mac Eachran, D.	Separators	Dec. 4, 1883
299,992	Magner, W.	Underground lines	June 10, 1884
292,022	Maine, H.	Telephonic telegraphs, details	Jan. 15, 1884
287,449	Maloney, J. A.	Telephonic telegraphs, relays and repeaters	Oct. 30, 1883
289,285	Maloney, J. A.	Relays and sounders	Nov. 27, 1883
296,420	Maloney, J. A.	Telephonic telegraphs, magnetic	Apr. 8, 1884
296,421	Maloney, J. A.	Telephonic telegraphs, electric	Apr. 8, 1884
296,593	Maloney, J. A.	do	Apr. 8, 1884
293,338	Many, C. M.	Applications, general	Feb. 12, 1884
286,030	Marcus, S.	Applications, tools and machines	Oct. 2, 1883
293,482	Markle, J. R. and Wayne, J. B.	Magneto-electric	Feb. 12, 1884
282,914	Martin, J. F.	Conductors	Aug. 7, 1883
286,937	Martin, J. F.	do	Oct. 16, 1883
286,938	Martin, J. F.	Underground lines	Oct. 16, 1883
286,939	Martin, J. F.	do	Oct. 16, 1883
286,940	Martin, J. F.	do	Oct. 16, 1883
286,941	Martin, J. F.	do	Oct. 16, 1883
286,942	Martin, J. F.	do	Oct. 16, 1883
286,943	Martin, J. F.	do	Oct. 16, 1883
286,944	Martin, J. F.	do	Oct. 16, 1883
286,945	Martin, J. F.	do	Oct. 16, 1883
286,946	Martin, J. F.	Conductors	Oct. 16, 1883
286,947	Martin, J. F.	Underground lines	Oct. 16, 1883
286,948	Martin, J. F.	Conductors, anti-inductive	Oct. 16, 1883
286,949	Martin, J. F.	do	Oct. 16, 1883
286,950	Martin, J. F.	Underground lines	Oct. 16, 1883
287,146	Martin, J. F.	Conductors	Oct. 23, 1883
286,722	Martin, M.	Indicators	Oct. 16, 1883
286,325	Mather, R. H.	Regulators	Oct. 9, 1883
288,089	Mather, T. W.	Telephonic telegraphs, calls	Nov. 6, 1883
283,629	Maxim, H. S.	Lights, arc	Aug. 21, 1883
296,341	Maxim, H. S.	Applications, tools and machines	Apr. 8, 1884
290,338	Maxwell, G. S.	Railway-signals	Dec. 18, 1883
286,035	Mayall, T. J.	Conductors	Oct. 2, 1883
286,036	Mayall, T. J.	do	Oct. 2, 1883
291,371	Mayall, T. J.	Underground lines	Jan. 1, 1884
283,912	McCarty, R. A. and Johnson, C. M.	Locomotion	Aug. 28, 1883
293,974	McCarty, W. F. M.	Telegraphs, automatic	Feb. 19, 1884
300,098	McCarty, W. F. M.	Circuit-closers	June 10, 1884
299,664	McCausland, W. J.	Telegraphs, printing	June 3, 1884
288,826	McConnell, J. T.	Lights, arc	Nov. 20, 1883
284,878	McCormick, D. A.	Annunciators	Sept. 11, 1883
287,040	McCoy, J. A.	Lights, systems and appliances	Oct. 23, 1883
295,267	McDaniel, C. W.	Lightning-arresters	Mar. 18, 1884
294,059	McElhiney, H. H.	Dental-instruments	Feb. 26, 1884
284,137	McElroy, W. J.	Conductors	Aug. 28, 1883
284,138	McElroy, W. J.	do	Aug. 28, 1883
284,139	McElroy, W. J.	Underground lines	Aug. 28, 1883
297,148	McFall, E. H.	Telephonic telegraphs, calls	Apr. 22, 1884
287,766	McGill, G. W.	Conductors	Oct. 30, 1883
281,097	McGinnis, W. T.	Induction-coils	July 10, 1883
295,574	McGinnis, W. T.	Batteries, galvanic	Mar. 25, 1884
293,901	McGrory, T.	Insulators	Feb. 19, 1884
291,211	McIntire, C.	Connectors	Jan. 1, 1884
281,904	McMahan, J. M.	Magneto-electric	July 24, 1883
295,789	McTighe, J. J.	do	Mar. 25, 1884
288,829	McTighe, T. J.	do	Nov. 20, 1883
288,830	McTighe, T. J. and McConnell, J. T.	do	Nov. 20, 1883
288,831	McTighe, T. J. and McConnell, J. T.	Lights, arc	Nov. 20, 1883
292,835	Mehren, J. F.	Telephonic telegraphs, electric	Feb. 5, 1884
298,997	Millard, O.	Batteries, galvanic	May 20, 1884
288,835	Miller, A. G.	Telephonic telegraphs, mechanical	Nov. 20, 1883
296,294	Miner, T.	Conductors	Apr. 1, 1884
286,144	Moffatt, R. R.	Lights, arc	Oct. 2, 1883
281,235	Moffitt, J. A.	do	July 17, 1883
288,356	Molera, E. J.	Locomotion	Nov. 13, 1883

No.	NAME.	CLASS.	DATE.
291,526	Molera, E. J. and Cebrian, J. C.	Batteries, secondary	Jan. 8, 1884
292,034	Molera, E. J. and Cebrian, J. C.	do	Jan. 15, 1884
290,259	Molloy, B. C.	Separators	Dec. 18, 1883
281,782	Moore, C. E.	do	July 24, 1883
284,970	Moore, F.	Conductors	Sept. 11, 1883
295,664	Morava, W.	Lights, arc	Mar. 25, 1884
291,925	Morton, E. W.	Applications, tools and machines	Jan. 15, 1884
286,953	Moses, O. A.	Lights, arc	Oct. 16, 1883
292,840	Moses, O. A.	do	Feb. 5, 1884
293,495	Moses, O. A.	do	Feb. 12, 1884
283,270	Mott, S. D.	Lights, incandescent	Aug. 14, 1883
280,753	Muirhead, A.	Telegraphs, quadruplex	July 3, 1883
281,117	Muirhead, A.	do	July 10, 1883
281,118	Muirhead, A. and Winter, G. K.	do	July 10, 1883
287,565	Murdock, G. J.	Regulators	Oct. 30, 1883
289,693	Nash, L. H.	Applications, tools and machines	Dec. 4, 1883
294,259	Neifing, J.	Keys	Feb. 26, 1884
297,433	Neveux, C. G. E.	Lights, systems and appliances	Apr. 22, 1884
296,866	Newbury, H. F.	Magnetic-locks	Apr. 15, 1884
297,623	Newbury, H. F.	do	Apr. 29, 1884
300,999	Newton, F. M.	Lights, arc	June 24, 1884
283,354	Nichols, W.	Telephonic telegraphs, calls	Aug. 14, 1883
289,301	Nicholson, H. C.	Telegraphs, quadruplex	Nov. 27, 1883
288,102	Nickum, G. S.	Applications, tools and machines	Nov. 6, 1883
287,773	Nungesser, P. P.	Magneto-electric	Oct. 30, 1883
287,774	Nungesser, P. P.	do	Oct. 30, 1883
297,833	Nungesser, P. P.	Lights, arc	Apr. 29, 1884
294,066	Nystrom, J. W.	Motors	Feb. 26, 1884
288,360	Oakman, S.	Insulators	Nov. 13, 1883
283,806	O'Donel, I. M.	Telephonic telegraphs, systems	Aug. 28, 1883
283,138	O'Harra, G. W.	Rheostats	Aug. 14, 1883
280,947	Ohl, P. C.	Conductors	July 10, 1883
280,948	Ohl, P. C.	Telephonic telegraphs, calls	July 10, 1883
288,183	Ohly, C. H.	Telephonic telegraphs, systems	Nov. 6, 1883
299,572	Oliver, H. W., jr.	Applications, tools and machines	June 3, 1884
290,098	Olmsted, J.	Magneto-electric	Dec. 11, 1883
292,761	Olmsted, J.	Lights, systems and appliances	Jan. 29, 1884
283,807	Omensetter, E.	Underground lines	Aug. 28, 1883
298,397	Oppenheimer, L. K.	Applications, general	May 13, 1884
287,710	Oram, J. M.	Telephonic telegraphs, systems	Oct. 30, 1883
292,570	Oram, J. M., Sutton, H. M. and Garrett, H.	Telephonic telegraphs, calls	Jan. 29, 1884
284,655	O'Reilly, A. J.	Underground lines	Sept. 11, 1883
283,535	Ornc, C. P.	Batteries, galvanic	Aug. 14, 1883
280,850	Orton, B. F.	Lights, systems and appliances	July 10, 1883
285,657	Orvis, O. D. and Adams, N. B.	Underground lines	Sept. 25, 1883
287,957	Osborne, J. W.	Applications, general	Nov. 6, 1883
281,788	Ostrogovich, F.	Telegraphs, printing	July 24, 1883
286,955	O'Sullivan, M. J.	Relays and sounders	Oct. 16, 1883
299,417	O'Sullivan, M. J.	Telegraphs, fire	May 27, 1884
295,671	Pabst, C.	Batteries, galvanic	Mar. 25, 1884
295,581	Pace, R. G. and Wev, W. J.	Alarms	Mar. 25, 1884
290,101	Page, H. W. and Carley, H.	Indicators	Dec. 11, 1883
297,626	Page, J. H.	Conductors	Apr. 29, 1884
298,020	Page, J. H.	Underground lines	May 6, 1884
290,350	Paine, H. M.	Magneto-electric	Dec. 18, 1883
289,552	Palmer, A. C.	Annunciators	Dec. 4, 1883
282,561	Palmer, F. A.	Therapeutics, electrodes	Aug. 7, 1883
296,211	Park, H. S.	Car-brakes	Apr. 1, 1884
296,212	Park, H. S.	do	Apr. 1, 1884
296,349	Park, H. S.	do	Apr. 8, 1884
287,855	Parker, L. C.	Applications, tools and machines	Nov. 6, 1883
286,481	Parker, T. H.	Gas-lighting	Oct. 9, 1883
286,841	Parkhurst, E. B.	Regulators	Oct. 16, 1883
297,438	Parrish, M. F. and Munn, S. J.	Railway-signals	Apr. 22, 1884
282,562	Patee, T. H.	Lightning-rods	Aug. 7, 1883
297,290	Patee, T. H.	do	Apr. 22, 1884
297,291	Patee, T. H.	do	Apr. 22, 1884
281,722	Patterson, W. R.	Underground lines	July 24, 1883
281,723	Patterson, W. R.	Lightning-arresters	July 24, 1883
284,226	Patterson, W. R.	Conductors	Sept. 4, 1883
292,847	Patterson, W. R.	do	Feb. 5, 1884
292,848	Patterson, W. R.	do	Feb. 5, 1884
292,849	Patterson, W. R.	do	Feb. 5, 1884
293,775	Patterson, W. R.	do	Feb. 19, 1884
294,500	Patterson, W. R.	Underground lines	Mar. 4, 1884
296,774	Patterson, W. R.	do	Apr. 15, 1884
300,005	Patterson, W. R.	do	June 10, 1884

No.	NAME.	CLASS.	DATE.
290,602	Pattysen, W. D. C.	Telegraphs, railway-car	Dec. 18, 1883
288,107	Pearce, F.	Telegraphs, fire	Nov. 6, 1883
280,506	Pearce, F. and Jones, J.	do	July 3, 1883
285,066	Peckham, F. H., jr.	Batteries, galvanic	Sept. 18, 1883
287,775	Peirce, W. E.	Magnetic-locks	Oct. 30, 1883
287,313	Perkins, C. G.	Lights, incandescent	Oct. 23, 1883
287,314	Perkins, C. G.	do	Oct. 23, 1883
287,315	Perkins, C. G.	Lights, systems and appliances	Oct. 23, 1883
287,316	Perkins, C. G.	do	Oct. 23, 1883
287,317	Perkins, C. G.	do	Oct. 23, 1883
287,318	Perkins, C. G.	do	Oct. 23, 1883
287,319	Perkins, C. G.	Lights, incandescent	Oct. 23, 1883
287,320	Perkins, C. G.	Cut-outs, thermal	Oct. 23, 1883
287,321	Perkins, C. G.	Lights, systems and appliances	Oct. 23, 1883
287,322	Perkins, C. G.	do	Oct. 23, 1883
287,323	Perkins, C. G.	Lights, incandescent	Oct. 23, 1883
290,467	Perkins, C. G.	do	Dec. 18, 1883
290,468	Perkins, C. G.	Batteries, secondary, applications	Dec. 18, 1883
290,469	Perkins, C. G.	Lights, incandescent	Dec. 18, 1883
290,470	Perkins, C. G.	Batteries, secondary, applications	Dec. 18, 1883
280,662	Perrin, T. J.	Telephonic telegraphs, systems	July 3, 1883
280,663	Perrin, T. J.	do	July 3, 1883
294,906	Perrin, T. J.	Underground lines	Mar. 11, 1884
285,670	Phelps, G. M., jr.	Telephonic telegraphs, systems	Sept. 25, 1883
281,202	Phelps, L. J.	Circuit-closers	July 10, 1883
288,480	Phelps, W. P.	Railway-signals	Nov. 13, 1883
292,762	Philippart, G.	Batteries, secondary	Jan. 29, 1884
293,271	Phillips, W. J. and Kitson, G. L.	Conductors	Feb. 12, 1884
285,672	Phillips, H. O.	do	Sept. 25, 1883
285,673	Phillips, H. O.	do	Sept. 25, 1883
286,220	Phillips, H. O.	do	Oct. 9, 1883
287,776	Phillips, H. O.	do	Oct. 30, 1883
284,755	Pidgin, C. F. and Leonard, F. H., jr.	Recorders	Sept. 11, 1883
293,076	Piette, L. and Krizik, F.	Lights, arc	Feb. 5, 1884
299,259	Pike, E.	Separators	May 27, 1884
294,404	Pinkham, C. S.	Circuit-closers	Mar. 4, 1884
293,979	Plumb, C.	Keys	Feb. 19, 1884
282,921	Plush, S. M.	Lightning-arresters	Aug. 7, 1883
284,480	Pope, F. L.	Bells	Sept. 4, 1883
284,481	Pope, F. L.	Telegraphs	Sept. 4, 1883
290,922	Pope, F. L.	Insulators	Dec. 25, 1883
293,272	Pope, F. L.	Batteries, galvanic	Feb. 12, 1884
294,148	Pope, F. L.	Conductors	Feb. 26, 1884
294,669	Pope, F. L.	Electro-magnets	Mar. 4, 1884
295,427	Pope, F. L.	Railway-signals	Mar. 18, 1884
283,140	Pope, H. W.	Conductors	Aug. 14, 1883
283,276	Pope, H. W.	Connectors	Aug. 14, 1883
296,058	Porter, M. D.	Thermostats	Apr. 1, 1884
296,874	Porter, M. D.	Telegraphs, fire	Apr. 15, 1884
296,875	Porter, M. D. and Wilder, E. R.	do	Apr. 15, 1884
287,466	Pottinger, T. J.	Railway-signals	Oct. 30, 1883
285,676	Prentiss, F. H. and Tilden, J. A.	Thermostats	Sept. 25, 1883
293,518	Prince, J.	Applications, general	Feb. 12, 1884
282,010	Putnam, T. A. B.	Underground lines	July 24, 1883
284,668	Putnam, T. A. B.	Conductors	Sept. 11, 1883
284,669	Putnam, T. A. B.	Railway-signals	Sept. 11, 1883
284,670	Putnam, T. A. B.	do	Sept. 11, 1883
289,137	Putnam, T. A. B.	do	Nov. 27, 1883
280,763	Rabl, F.	Lights, arc	July 3, 1883
294,270	Rae, F. B. and Healy, C. L.	Magneto-electric	Feb. 26, 1884
280,764	Rafer, E. E. and E. G.	Underground lines	July 3, 1883
295,804	Randall, C. A.	Telephonic telegraphs, magnetic	Mar. 25, 1884
295,805	Randall, C. A.	Telephonic telegraphs, electric	Mar. 25, 1884
295,806	Randall, C. A.	do	Mar. 25, 1884
295,807	Randall, C. A.	do	Mar. 25, 1884
291,399	Randall, N.	Conductors	Jan. 1, 1884
293,980	Redding, J.	Bells	Feb. 19, 1884
299,011	Redding, J.	Indicators	May 20, 1884
286,963	Reed, T. S.	Conductors	Oct. 16, 1883
290,925	Rew, H. C.	Lights, systems and appliances	Dec. 25, 1883
290,926	Rew, H. C.	Applications, general	Dec. 25, 1883
290,927	Rew, H. C.	do	Dec. 25, 1883
290,930	Rew, H. C.	do	Dec. 25, 1883
287,166	Reynolds, C. C.	Telephonic telegraphs, electric	Oct. 23, 1883
292,586	Rhodes, T. H.	Cut-outs, thermal	Jan. 29, 1884
283,662	Richter, C.	Lights, arc	Aug. 21, 1883
294,913	Richter, C.	Magneto-electric	Mar. 11, 1884

No.	NAME.	CLASS.	DATE.
282,227	Richter, P.	Gas-lighting	July 31, 1883
281,730	Ricketts, P. C.	Connectors	July 24, 1883
292,178	Rider, A. K.	Applications, tools and machines	Jan. 22, 1884
294,405	Rider, A. K.	Thermostats	Mar. 4, 1884
296,355	Ritchie, J.	Lights, systems and appliances	Apr. 8, 1884
289,309	Robertson, J. H.	Telephonic telegraphs, magnetic	Nov. 27, 1883
296,357	Rogers, A. J.	Electrolysis	Apr. 8, 1884
285,076	Rogers, E.	Telegraphs, fire	Sept. 18, 1883
281,223	Rogers, H. D.	Conductors	July 10, 1883
281,560	Rogers, J. H.	Telephonic telegraphs, electric	July 17, 1883
287,169	Rogers, J. H.	do	Oct. 23, 1883
288,366	Rogers, J. H.	Telephonic telegraphs, mechanical	Nov. 13, 1883
292,857	Rogers, J. H.	Telephonic telegraphs, systems	Feb. 5, 1884
292,858	Rogers, J. H.	Telephonic telegraphs, mechanical	Feb. 5, 1884
297,166	Rogers, J. H.	Telephonic telegraphs, magnetic	Apr. 22, 1884
297,167	Rogers, J. H.	Telephonic telegraphs, electric	Apr. 22, 1884
297,168	Rogers, J. H.	do	Apr. 22, 1884
280,518	Rogers, J. W.	Conductors	July 3, 1883
283,665	Rogers, J. W.	Telegraphs, automatic	Aug. 21, 1883
287,170	Roovers, A. and A.	Therapeutics, body-wear	Oct. 23, 1883
298,121	Ross, C. T.	Thermostats	May 6, 1884
290,709	Ross, J. S.	Magneto-electric, hand-machines	Dec. 25, 1883
294,335	Ross, O. C. D.	Batteries, galvanic	Feb. 26, 1884
296,068	Rouleau, F. V.	Separators	Apr. 1, 1884
285,682	Rousseau, D.	Gas-lighting	Sept. 25, 1883
300,134	Rousseau, D.	Annunciators	June 10, 1884
289,449	Rousseau, N.	Insulators	Dec. 4, 1883
291,405	Russell, P. G.	Meters	Jan. 1, 1884
292,180	Ryder, S.	Connectors	Jan. 22, 1884
280,521	Sawyer, W. H.	Conductors	July 3, 1883
295,287	Sawyer, W. H.	Clocks	Mar. 18, 1884
297,855	Sawyer, W. H.	Conductors, anti-inductive	Apr. 29, 1884
298,507	Saxe, C. A.	Motors	May 13, 1884
300,139	Schisgall, S.	Clocks	June 10, 1884
288,496	Schlaefli, J. P. A.	do	Nov. 13, 1883
282,784	Schlosser, E. F.	Batteries, galvanic	Aug. 7, 1883
298,030	Schmid, A.	Applications, tools and machines	May 6, 1884
296,464	Schroeder, A.	Batteries, galvanic	Apr. 8, 1884
291,944	Schuyler, D. A. and Waterhouse, A. G.	Magneto-electric	Jan. 15, 1884
282,229	Scott, C. A.	Railway-signals	July 31, 1883
282,230	Scott, C. A.	do	July 31, 1883
283,152	Scott, C. A.	do	Aug. 14, 1883
292,687	Scott, C. A.	do	Jan. 29, 1884
283,927	Scribner, C. E.	Telephonic telegraphs, systems	Aug. 28, 1883
284,908	Scribner, C. E.	do	Sept. 11, 1883
284,909	Scribner, C. E.	do	Sept. 11, 1883
287,873	Scribner, C. E.	Magneto-electric, hand-machines	Nov. 6, 1883
292,865	Scribner, C. E.	Telephonic telegraphs, systems	Feb. 5, 1884
292,866	Scribner, C. E.	do	Feb. 5, 1884
293,196	Scribner, C. E.	do	Feb. 5, 1884
293,197	Scribner, C. E.	do	Feb. 5, 1884
293,198	Scribner, C. E.	do	Feb. 5, 1884
294,336	Scribner, C. E.	do	Feb. 26, 1884
298,783	Scribner, C. E.	Telephonic telegraphs, magnetic	May 20, 1884
300,143	Scribner, C. E.	Telephonic telegraphs, systems	June 10, 1884
300,144	Scribner, C. E.	do	June 10, 1884
296,881	Seely, J. A.	Insulators	Apr. 15, 1884
298,242	Seiler, P.	Annunciators	May 6, 1884
281,406	Selden, C.	Telephonic telegraphs, mechanical	July 17, 1883
281,407	Selden, C.	do	July 17, 1883
291,094	Selden, C.	do	Jan. 1, 1884
291,095	Selden, C.	Railway-signals	Jan. 1, 1884
291,096	Selden, C.	Telegraphs, duplex	Jan. 1, 1884
291,097	Selden, C.	do	Jan. 1, 1884
296,230	Seligman, H. and E.	Telephonic telegraphs, mechanical	Apr. 1, 1884
292,691	Sellon, J. S.	Regulators	Jan. 29, 1884
299,021	Sellon, R. P.	Batteries, secondary, applications	May 20, 1884
280,677	Senour, F. L.	Lights, arc	July 3, 1883
294,817	Shaffer, C. H.	Dental instruments	Mar. 11, 1884
298,243	Shaver, G. F.	Telephonic telegraphs, systems	May 6, 1884
289,575	Shaw, T.	Conductors	Dec. 4, 1883
296,074	Shaw, T.	do	Apr. 1, 1884
290,121	Shaw, W. A.	do	Dec. 11, 1883
290,122	Shaw, W. A.	do	Dec. 11, 1883
292,694	Shaw, W. A.	do	Jan. 29, 1884
297,457	Shaw, W. A.	Batteries, secondary	Apr. 22, 1884
281,799	Shechy, R. J.	Lights, systems and appliances	July 24, 1883

No.	NAME.	CLASS.	DATE.
281,800	Sheehy, R. J	Lights, arc	July 24, 1883
283,155	Sheehy, R. J	Regulators	Aug. 14, 1883
284,247	Sheehy, R. J	Lights, systems and appliances	Sept. 4, 1883
284,497	Sheehy, R. J	Lights, arc	Sept. 4, 1883
285,691	Sheehy, R. J	Magneto-electric	Sept. 25, 1883
289,456	Sheehy, R. J	Lights, incandescent	Dec. 4, 1883
289,862	Sheehy, R. J	Meters	Dec. 11, 1883
294,688	Sheehy, R. J	Magneto-electric	Mar. 4, 1884
295,058	Sheehy, R. J	Lights, arc	Mar. 11, 1884
297,175	Shelbourne, S. F	Conductors, anti-inductive	Apr. 22, 1884
297,176	Shelbourne, S. F	do	Apr. 22, 1884
297,177	Shelbourne, S. F	do	Apr. 22, 1884
297,178	Shelbourne, S. F	do	Apr. 22, 1884
297,179	Shelbourne, S. F	Underground lines	Apr. 22, 1884
297,180	Shelbourne, S. F	Conductors, anti-inductive	Apr. 22, 1884
297,181	Shelbourne, S. F	Conductors	Apr. 22, 1884
297,182	Shelbourne, S. F	Telegraph-poles	Apr. 22, 1884
297,183	Shelbourne, S. F	Underground lines	Apr. 22, 1884
297,184	Shelbourne, S. F	Conductors, anti-inductive	Apr. 22, 1884
287,875	Shepard, C. S	Cut-outs, mechanical	Nov. 6, 1883
286,737	Shepherd, G. R	Telephonic telegraphs, magnetic	Oct. 16, 1883
299,277	Sheridan, H. B	Lights, systems and appliances	May 27, 1884
300,648	Sheridan, H. B. and Gorn, H. A	Motors	June 17, 1884
289,720	Shields, J	Applications, general	Dec. 4, 1883
281,931	Shivler, C. S	Annunciators	July 24, 1883
295,445	Shivler, C. S	Alarms, burglar	Mar. 18, 1884
299,025	Short, S. H	Lights, arc	May 20, 1884
295,059	Shute, E. L	Gas-lighting	Mar. 11, 1884
297,022	Skinner, J. J	Lights, arc	Apr. 15, 1884
291,948	Small, D. M	Applications, tools and machines	Jan. 15, 1884
292,374	Smith, A. T	Gas-lighting	Jan. 22, 1884
287,881	Smith, C. D. F	Lights, systems and appliances	Nov. 6, 1883
297,724	Smith, D. E	Telephonic telegraphs, relays and repeaters	Apr. 29, 1884
280,869	Smith, F. A	Underground lines	July 10, 1883
291,236	Smith, G	Telegraphs, quadruplex	Jan. 1, 1884
297,186	Smith, G	do	Apr. 22, 1884
297,540	Smith, G	Telegraphs, multiplex	Apr. 22, 1884
284,498	Smith, G. and Taylor, T. F	Telegraphs, duplex	Sept. 4, 1883
293,532	Smith, L. L	Conductors	Feb. 12, 1884
297,306	Smith, M. H	Locomotion	Apr. 22, 1884
293,533	Smith, T. L	Underground lines	Feb. 12, 1884
297,462	Smith, T. L	do	Apr. 22, 1884
297,463	Smith, T. L	do	Apr. 22, 1884
288,881	Smith, W. C	Relays and sounders	Nov. 20, 1883
292,142	Smyth, C. A	Batteries, secondary	Jan. 15, 1884
282,791	Snell, F. H	Telephonic telegraphs, systems	Aug. 7, 1883
284,915	Somers, G. E	Connectors	Sept. 11, 1883
281,937	Spang, H. W	Lights, systems and appliances	July 24, 1883
284,082	Spang, H. W	Lightning-rods	Aug. 28, 1883
284,505	Spang, H. W	Lights, systems and appliances	Sept. 4, 1883
286,086	Spang, H. W	Lightning-rods	Oct. 2, 1883
282,680	Sparling, J. A	Conductors	Aug. 7, 1883
295,686	Sparrow, F. M	Applications, general	Mar. 25, 1884
286,861	Speed, F. M	Underground lines	Oct. 16, 1883
289,869	Spelman, P. H	Telegraphs, fire	Dec. 11, 1883
298,906	Spengler, C. G	Indicators	May 20, 1884
286,970	Sperry, E. A	Annunciators	Oct. 16, 1883
297,866	Sperry, E. A	Regulators	Apr. 29, 1884
297,867	Sperry, E. A	Motors	Apr. 29, 1884
300,403	Splitdorf, H	Conductors	June 17, 1884
295,454	Sprague, F. J	Motors	Mar. 18, 1884
296,641	Springer, L. C	Morse registers	Apr. 8, 1884
284,503	Spurgeon, S. J	Keys	Sept. 4, 1883
293,105	Spurgeon, S. J	do	Feb. 5, 1884
286,497	Stabler, J. P	Magneto-electric	Oct. 9, 1883
288,132	Stanard, R. T	Conductors	Nov. 6, 1883
291,239	Stanley, H. D	do	Jan. 1, 1884
283,433	Stanley, H. D. and Doolittle, G	do	Aug. 21, 1883
294,412	Stanley, W., jr	Lights, systems and appliances	Mar. 4, 1884
299,177	Stanley, W., jr	Batteries, secondary	May 27, 1884
299,178	Stanley, W., jr	do	May 27, 1884
293,679	Stark, W. F	Therapeutics, body-wear	Feb. 19, 1884
281,156	Starr, E. T	Batteries, secondary	July 10, 1883
282,306	Starr, E. T	do	July 31, 1883
282,795	Starr, E. T	Batteries, galvanic	Aug. 7, 1883
283,295	Starr, E. T	Batteries, secondary	Aug. 14, 1883
290,941	Starr, E. T	do	Dec. 25, 1883

No.	NAME.	CLASS.	DATE.
290,942	Starr, E. T	Batteries, secondary	Dec. 25, 1883
290,943	Starr, E. T	do	Dec. 25, 1883
291,798	Starr, E. T	Underground lines	Jan. 8, 1884
295,455	Starr, E. T	Batteries, secondary	Mar. 18, 1884
295,456	Starr, E. T	do	Mar. 18, 1884
295,889	Starr, E. T	do	Mar. 25, 1884
299,434	Starr, E. T	do	May 27, 1884
300,154	Starr, E. T	Motors	June 10, 1884
300,155	Starr, E. T	Lights, systems and appliances	June 10, 1884
300,523	Starr, E. T	do	June 17, 1884
300,524	Starr, E. T	do	June 17, 1884
300,525	Starr, E. T	do	June 17, 1884
281,412	Starr, E. T. and E. E.	do	July 17, 1883
284,577	Starr, E. T. and E. E.	Batteries, secondary	Sept. 4, 1883
281,413	Stearns, J. M., jr.	Telephonic telegraphs, systems	July 17, 1883
281,414	Stearns, J. M., jr.	Telephonic telegraphs, magnetic	July 17, 1883
295,206	Stevens, H. M.	Magneto-electric	Mar. 18, 1884
288,677	Stevenson, T. S.	Applications, tools and machines	Nov. 20, 1883
294,928	Stevenson, T. S.	Connectors	Mar. 11, 1884
299,288	Stewart, J. N.	Telephonic telegraphs, systems	May 27, 1884
281,576	Stieringer, L.	Lights, systems and appliances	July 17, 1883
294,697	Stieringer, L.	do	Mar. 4, 1884
285,852	Stilwell, R.	Therapeutics, electrodes	Oct. 2, 1883
285,853	Stilwell, R.	do	Oct. 2, 1883
285,854	Stilwell, R.	do	Oct. 2, 1883
284,255	Stockwell, L. W.	Motors	Sept. 4, 1883
291,636	Stockwell, L. W.	do	Jan. 8, 1884
292,382	Stockwell, L. W.	Regulators	Jan. 22, 1884
298,130	Stockwell, L. W.	Motors	May 6, 1884
295,073	Stone, R. C.	Conductors	Mar. 11, 1884
295,074	Stone, R. C.	Transmitters	Mar. 11, 1884
295,075	Stone, R. C.	do	Mar. 11, 1884
295,207	Stone, R. C.	Conductors	Mar. 18, 1884
281,579	Storer, G. W.	Regulators	July 17, 1883
297,470	Strangways, H. B. T.	Telephonic telegraphs, magnetic	Apr. 22, 1884
289,164	Strohm, S. D.	Underground lines	Nov. 27, 1883
289,165	Strohm, S. D.	do	Nov. 27, 1883
289,166	Strohm, S. D.	do	Nov. 27, 1883
288,888	Strondley, W. and Houghton, E. J.	Batteries, secondary, applications	Nov. 20, 1883
289,320	Suit, S. T.	Telegraph-poles	Nov. 27, 1883
291,802	Sutton, L. W., jr.	Telephonic telegraphs, magnetic	Jan. 8, 1884
282,472	Swan, A.	Lights, incandescent	July 31, 1883
292,447	Swan, A.	do	Jan. 22, 1884
298,913	Swayze, S. J. and Lane, J. C.	Railway-signals	May 20, 1884
284,578	Sweet, D. F.	Clocks	Sept. 4, 1883
289,725	Tainter, S.	Conductors	Dec. 4, 1883
292,962	Talbot, C. N.	Clocks	Feb. 5, 1884
285,523	Tanner, W. J.	Separators	Sept. 25, 1883
299,036	Taylor, G. W., Cox, A. R., Brown, W. C. and Sutherland, J. N.	Telegraphs, fire	May 20, 1884
289,173	Taylor, T. F.	Telegraphs, automatic	Nov. 27, 1883
293,110	Taylor, T. F.	do	Feb. 5, 1884
293,111	Taylor, T. F.	do	Feb. 5, 1884
293,112	Taylor, T. F.	do	Feb. 5, 1884
290,611	Taylor, W. and King, F.	Batteries, secondary	Dec. 18, 1883
296,365	Thame, H.	Batteries, galvanic	Apr. 8, 1884
290,495	Thau, H.	Bells	Dec. 18, 1883
283,166	Thomas, H. C.	Lightning-rods	Aug. 14, 1883
283,042	Thomas, W. M.	Lights, arc	Aug. 14, 1883
288,513	Thomas, W. M.	Locomotion	Nov. 13, 1883
291,958	Thomas, W. M.	Cut-outs, electro-magnetic	Jan. 15, 1884
300,532	Thomas, W. M.	do	June 17, 1884
286,867	Thompson, B.	Telegraphs, duplex	Oct. 16, 1883
282,131	Thompson, H. M.	Separators	July 31, 1883
281,416	Thomson, E.	Magneto-electric	July 17, 1883
283,167	Thomson, E.	do	Aug. 14, 1883
283,168	Thomson, E.	Lights, arc	Aug. 14, 1883
283,437	Thomson, E.	do	Aug. 21, 1883
289,580	Thomson, E.	do	Dec. 4, 1883
294,094	Thomson, E.	Magneto-electric	Feb. 26, 1884
294,095	Thomson, E.	Motors	Feb. 26, 1884
295,836	Thomson, E.	Lights, arc	Mar. 25, 1884
296,799	Thomson, E.	Regulators	Apr. 15, 1884
297,194	Thomson, E.	Lights, arc	Apr. 22, 1884
297,195	Thomson, E.	do	Apr. 22, 1884
297,196	Thomson, E.	do	Apr. 22, 1884
297,197	Thomson, E.	do	Apr. 22, 1884

No.	NAME.	CLASS.	DATE.
297,198	Thomson, E.	Lights, arc	Apr. 22, 1884
297,199	Thomson, E.	do	Apr. 22, 1884
297,200	Thomson, E.	do	Apr. 22, 1884
297,201	Thomson, E.	do	Apr. 22, 1884
285,445	Tibbits, J. B.	do	Sept. 25, 1883
287,067	Tibbits, J. B.	do	Oct. 23, 1883
280,882	Tichenor, A. C.	Applications, general	July 10, 1883
300,410	Tichenor, A. C.	Conductors	June 17, 1884
293,116	Timmis, I. A. and Currie, S. C. C.	Electro-magnets	Feb. 5, 1884
283,303	Tirrell, J. P.	Circuit-closers	Aug. 14, 1883
291,241	Tobin, J. L.	Batteries, galvanic	Jan. 1, 1884
289,470	Tomney, J.	Alarms, burglar	Dec. 4, 1883
289,471	Tomney, J.	do	Dec. 4, 1883
284,342	Tompkins, C. T.	Batteries, secondary	Sept. 4, 1883
299,068	Torre, F. D.	Telephonic telegraphs, electric	June 10, 1884
280,639	Towan, J. H.	Gas-lighting	July 3, 1883
293,921	Townsend, H. C. and Buckingham, C. L.	Cut-outs, electro-magnetic	Feb. 19, 1884
293,118	Townsend, L.	Telephonic telegraphs, systems	Feb. 5, 1884
293,688	Trask, C. H.	Underground lines	Feb. 19, 1884
289,178	Tregurtha, J.	Telephonic telegraphs, systems	Nov. 27, 1883
289,179	Tregurtha, J.	do	Nov. 27, 1883
289,180	Tregurtha, J.	do	Nov. 27, 1883
289,321	Tregurtha, J.	do	Nov. 27, 1883
284,343	Tribe, A.	Batteries, secondary	Sept. 4, 1883
296,485	Tringham, J. W.	Insulators	Apr. 8, 1884
297,647	Tuck, J. H. L.	Boat-steering	Apr. 29, 1884
297,648	Tuck, J. H. L.	Exploding	Apr. 29, 1884
286,158	Tupper, J. A.	Lights, systems and appliances	Oct. 2, 1883
283,044	Turner, D. B.	Conductors	Aug. 14, 1883
299,600	Turner, T. G.	Lights, arc	June 3, 1884
290,149	Unger, J. and Eisele, S. O.	Batteries, galvanic	Dec. 11, 1883
290,150	Unger, J. and Eisele, S. O.	Lights, arc	Dec. 11, 1883
293,381	Upham, J. C. and Rogers, J. P.	Railway signals	Feb. 12, 1884
286,350	Vail, J. H.	Lights, incandescent	Oct. 9, 1883
296,253	Vail, T. N.	Telephonic telegraphs, systems	Apr. 1, 1884
299,039	Vail, T. N.	do	May 20, 1884
300,168	Vail, T. N.	Annunciators	June 10, 1884
282,016	Van Benschoten, S. and Johnson, H. H.	do	July 24, 1883
290,152	Vance, S. B. H. and Hinds, C. H.	Lights, systems and appliances	Dec. 11, 1883
286,241	Van Choate, S. F.	Magneto-electric	Oct. 9, 1883
286,242	Van Choate, S. F.	do	Oct. 9, 1883
286,873	Van Choate, S. F.	Motors	Oct. 16, 1883
282,414	Van Depoele, C. J.	Batteries, secondary	July 31, 1883
284,779	Van Depoele, C. J.	Lights, systems and appliances	Sept. 11, 1883
285,527	Van Depoele, C. J.	Regulators	Sept. 25, 1883
285,528	Van Depoele, C. J.	do	Sept. 25, 1883
285,529	Van Depoele, C. J.	Batteries, secondary	Sept. 25, 1883
285,857	Van Depoele, C. J.	Motors	Oct. 2, 1883
285,858	Van Depoele, C. J.	Locomotion	Oct. 2, 1883
285,859	Van Depoele, C. J.	Lights, systems and appliances	Oct. 2, 1883
286,093	Van Depoele, C. J.	Lights, arc	Oct. 2, 1883
286,094	Van Depoele, C. J.	do	Oct. 2, 1883
287,343	Van Depoele, C. J.	Magneto-electric	Oct. 23, 1883
287,344	Van Depoele, C. J.	Lights, arc	Oct. 23, 1883
287,345	Van Depoele, C. J.	Regulators	Oct. 23, 1883
287,346	Van Depoele, C. J.	Conductors	Oct. 23, 1883
287,347	Van Depoele, C. J.	Lights, systems and appliances	Oct. 23, 1883
288,682	Van Depoele, C. J.	Cut-outs, thermal	Nov. 20, 1883
291,553	Van Depoele, C. J.	Lights, arc	Jan. 8, 1884
291,554	Van Depoele, C. J.	Regulators	Jan. 8, 1884
291,648	Van Depoele, C. J.	Cut-outs, electro-magnetic	Jan. 8, 1884
291,649	Van Depoele, C. J.	do	Jan. 8, 1884
291,650	Van Depoele, C. J.	Motors	Jan. 8, 1884
291,651	Van Depoele, C. J.	Lights, arc	Jan. 8, 1884
291,652	Van Depoele, C. J.	Cut-outs, electro-magnetic	Jan. 8, 1884
291,653	Van Depoele, C. J.	Lights, arc	Jan. 8, 1884
294,165	Van Depoele, C. J.	Motors	Feb. 26, 1884
294,532	Van Depoele, C. J.	Lights, arc	Mar. 4, 1884
294,533	Van Depoele, C. J.	do	Mar. 4, 1884
297,873	Van Depoele, C. J.	Magneto-electric	Apr. 29, 1884
298,431	Van Depoele, C. J.	do	May 13, 1884
300,535	Van Depoele, C. J.	do	June 17, 1884
299,700	Van Derveer, M. T. and Hegeman, J.	Separators	June 3, 1884
300,034	Vander Weyde, P. H.	Telegraphs	June 10, 1884
284,094	Van Hoevenbergh, H.	Conductors	Aug. 28, 1883
284,516	Van Hoevenbergh, H.	Gas-lighting	Sept. 4, 1883
285,709	Van Hoevenbergh, H.	Telegraphs, printing	Sept. 25, 1883

No.	NAME.	CLASS.	DATE.
285,710	Van Hoesenbergh, H	Telegraphs, printing	Sept. 25, 1883
286,977	Van Hoesenbergh, H	do	Oct. 16, 1883
290,292	Van Hoesenbergh, H	Lights, arc	Dec. 18, 1883
292,772	Van Hoesenbergh, H	Conductors	Jan. 29, 1884
292,966	Van Hoesenbergh, H	Telegraphs, printing	Feb. 5, 1884
293,922	Van Hoesenbergh, H	do	Feb. 19, 1884
293,923	Van Hoesenbergh, H	Motors	Feb. 19, 1884
293,924	Van Hoesenbergh, H	Telegraphs, printing	Feb. 19, 1884
293,925	Van Hoesenbergh, H	do	Feb. 19, 1884
293,926	Van Hoesenbergh, H	do	Feb. 19, 1884
293,927	Van Hoesenbergh, H	do	Feb. 19, 1884
293,928	Van Hoesenbergh, H	do	Feb. 19, 1884
297,879	Van Hoesenbergh, H	Gas-lighting	Apr. 29, 1884
280,536	Vansize, W. B.	Telegraphs, fire	July 3, 1883
290,613	Vansize, W. B. and Buckingham, C. L.	Telegraphs, printing	Dec. 18, 1883
300,417	Vansize, W. B. and Buckingham, C. L.	do	June 17, 1884
285,088	Van Wagenen, H. G.	Clocks	Sept. 18, 1883
290,654	Velloni, G. G. L.	Batteries, galvanic	Dec. 18, 1883
294,703	Verstraete, E.	Underground lines	Mar. 4, 1884
298,922	Vetter, J. C. and Putnam, S. G.	Motors	May 20, 1884
300,666	Vetter, J. C. and Putnam, S. G.	Batteries, galvanic	June 17, 1884
291,556	Vogel, W.	Railway signals	Jan. 8, 1884
291,435	Wagner, C. H.	Telegraph-poles	Jan. 1, 1884
281,585	Wagner, G. G.	Clocks	July 17, 1883
296,256	Wagner, G. G.	do	Apr. 1, 1884
286,875	Waite, H. E.	Telephonic telegraphs, magnetic	Oct. 16, 1883
286,876	Waite, H. E.	do	Oct. 16, 1883
287,742	Waite, H. E.	do	Oct. 30, 1883
292,602	Waite, H. E.	do	Jan. 29, 1884
292,603	Waite, H. E.	Telephonic telegraphs, electric	Jan. 29, 1884
298,923	Waite, H. E.	do	May 20, 1884
298,924	Waite, H. E.	Telephonic telegraphs, magnetic	May 20, 1884
298,925	Waite, H. E.	Telephonic telegraphs, electric	May 20, 1884
287,743	Waite, H. E. and Bartlett, S. H.	Telephonic telegraphs, magnetic	Oct. 30, 1883
296,653	Waldo, F.	Clocks	Apr. 8, 1884
300,035	Waleen, W. H.	Electrolysis	June 10, 1884
282,246	Wall, F. J.	Circuit-closers	July 31, 1883
300,537	Wallace, J. B.	Batteries, galvanic	June 17, 1884
290,949	Wallace, W.	Electrolysis	Dec. 25, 1883
292,881	Ware, F.	Telephonic telegraphs, electric	Feb. 5, 1884
297,732	Ware, F.	Telephonic telegraphs, details	Apr. 29, 1884
284,098	Waring, R. S.	Conductors	Aug. 28, 1883
284,099	Waring, R. S.	Underground lines	Aug. 28, 1883
284,100	Waring, R. S.	do	Aug. 28, 1883
290,375	Waring, R. S.	do	Dec. 18, 1883
294,536	Waring, R. S.	do	Mar. 4, 1884
294,537	Waring, R. S.	do	Mar. 4, 1884
294,538	Waring, R. S.	do	Mar. 4, 1884
294,539	Waring, R. S.	do	Mar. 4, 1884
294,540	Waring, R. S.	do	Mar. 4, 1884
294,541	Waring, R. S.	do	Mar. 4, 1884
294,542	Waring, R. S.	do	Mar. 4, 1884
294,543	Waring, R. S.	do	Mar. 4, 1884
294,544	Waring, R. S.	do	Mar. 4, 1884
294,545	Waring, R. S.	do	Mar. 4, 1884
294,546	Waring, R. S.	do	Mar. 4, 1884
294,547	Waring, R. S.	do	Mar. 4, 1884
294,548	Waring, R. S.	do	Mar. 4, 1884
294,549	Waring, R. S.	do	Mar. 4, 1884
294,550	Waring, R. S.	do	Mar. 4, 1884
295,086	Waring, R. S.	do	Mar. 11, 1884
284,102	Warner, E. P.	Telephonic telegraphs, systems	Aug. 28, 1883
281,741	Warner, J. C.	do	July 24, 1883
299,603	Warner, J. C. and E. P.	do	June 3, 1884
284,784	Warren, H. J. and Packard, H. F.	Gas-lighting	Sept. 11, 1883
299,300	Warth, N. G.	Telephonic telegraphs, systems	May 27, 1884
294,169	Waterhouse, A. G.	Regulators	Feb. 26, 1884
294,170	Waterhouse, A. G.	do	Feb. 26, 1884
294,294	Waterhouse, A. G.	Lights, arc	Feb. 26, 1884
293,929	Waters, W. T.	Motors	Feb. 19, 1884
300,420	Watson, J. E.	Regulators	June 17, 1884
285,327	Weaver, A. S.	Conductors	Sept. 18, 1883
289,944	Webb, G. B.	Clocks	Dec. 11, 1883
294,552	Webb, G. B.	do	Mar. 4, 1884
293,828	Weiss, C. W.	Recorders	Feb. 19, 1884
295,087	Welsh, A.	Lights, incandescent	Mar. 11, 1884
295,088	Welsh, A.	do	Mar. 11, 1884

No.	NAME.	CLASS.	DATE.
299,708	Welsh, A	Lights, incandescent	June 3, 1884
299,885	Welsh, A	do	June 3, 1884
292,079	Wenström, J	Magneto-electric	Jan. 15, 1884
300,176	Wenzel, W	Batteries, galvanic	June 10, 1884
300,422	West, W. A	Telephonic telegraphs, electric	June 17, 1884
282,249	Westinghouse, G., jr	Connectors	July 31, 1883
282,250	Westinghouse, G., jr	do	July 31, 1883
282,428	Weston, E	Meters	July 31, 1883
283,544	Weston, E	Lights, systems and appliances	Aug. 21, 1883
283,545	Weston, E	do	Aug. 21, 1883
283,546	Weston, E	Motors	Aug. 21, 1883
283,547	Weston, E	Meters	Aug. 21, 1883
283,548	Weston, E	Regulators	Aug. 21, 1883
283,549	Weston, E	Lights, systems and appliances	Aug. 21, 1883
285,451	Weston, E	Lights, arc	Sept. 25, 1883
285,714	Weston, E	Batteries, secondary, applications	Sept. 25, 1883
285,715	Weston, E	Lights, arc	Sept. 25, 1883
289,197	Weston, E	Transmission of power	Nov. 27, 1883
289,198	Weston, E	do	Nov. 27, 1883
289,199	Weston, E	Lights, systems and appliances	Nov. 27, 1883
289,200	Weston, E	Magneto-electric	Nov. 27, 1883
289,324	Weston, E	Regulators	Nov. 27, 1883
289,325	Weston, E	do	Nov. 27, 1883
289,326	Weston, E	do	Nov. 27, 1883
289,327	Weston, E	Lights, systems and appliances	Nov. 27, 1883
291,445	Weston, E	Regulators	Jan. 1, 1884
292,713	Weston, E	Cut-outs, thermal	Jan. 29, 1884
292,714	Weston, E	Indicators	Jan. 29, 1884
292,715	Weston, E	Regulators	Jan. 29, 1884
292,716	Weston, E	Lights, systems and appliances	Jan. 29, 1884
292,717	Weston, E	Conductors	Jan. 29, 1884
292,718	Weston, E	Lights, systems and appliances	Jan. 29, 1884
292,719	Weston, E	Magneto-electric	Jan. 29, 1884
292,720	Weston, E	Lights, systems and appliances	Jan. 29, 1884
292,721	Weston, E	Regulators	Jan. 29, 1884
297,324	Weston, E	Rheostats	Apr. 22, 1884
298,141	Weston, E	Lights, systems and appliances	May 6, 1884
298,142	Weston, E	Lights, incandescent	May 6, 1884
298,143	Weston, E	do	May 6, 1884
298,144	Weston, E	do	May 6, 1884
298,325	Weston, E	do	May 6, 1884
298,326	Weston, E	Connectors	May 6, 1884
298,327	Weston, E	Lights, systems and appliances	May 6, 1884
301,023	Weston, E	do	June 24, 1884
301,024	Weston, E	do	June 24, 1884
301,025	Weston, E	Magneto-electric	June 24, 1884
301,026	Weston, E	Lights, systems and appliances	June 24, 1884
301,027	Weston, E	Regulators	June 24, 1884
301,028	Weston, E	do	June 24, 1884
301,029	Weston, E	Lights, systems and appliances	June 24, 1884
301,030	Weston, E	Cut-outs, thermal	June 24, 1884
301,031	Weston, E	Conductors	June 24, 1884
301,076	Weston, E	Lights, arc	June 24, 1884
289,328	Weston, E. and Curtis, L. E.	Batteries, secondary, applications	Nov. 27, 1883
280,426	Wheeler, W	Lights, arc	July 3, 1883
282,816	White, L. S	Gas-lighting	Aug. 7, 1883
284,348	White, L. S	Telephonic telegraphs, calls	Sept. 4, 1883
298,531	White, L. S	Gas-lighting	May 13, 1884
289,590	White, N. S	Lights, incandescent	Dec. 4, 1883
286,518	Wilkins, G. A	Telephonic telegraphs, systems	Oct. 9, 1883
294,297	Wilkins, G. A	do	Feb. 26, 1884
282,822	Willard, C. A	Applications, general	Aug. 7, 1883
291,825	Williams, A. and Gannon, J. M	Cut-outs, mechanical	Jan. 8, 1884
296,262	Williams, F. T. and Howell, J. C	Batteries, secondary	Apr. 1, 1884
286,359	Williams, W. H	Electrolysis	Oct. 9, 1883
295,966	Williamson, J. J	Conductors	Apr. 1, 1884
300,179	Williamson, J. J	do	June 10, 1884
300,669	Williamson, J. J	do	June 17, 1884
288,906	Willson, R. W	Clocks	Nov. 20, 1883
283,312	Wilson, C. H	Telephonic telegraphs, systems	Aug. 14, 1883
287,490	Wilson, E. L	Telephonic telegraphs, electric	Oct. 30, 1883
293,206	Wilson, E. M	Telephonic telegraphs, systems	Feb. 5, 1884
283,448	Wilson, J. C	Telephonic telegraphs, calls	Aug. 21, 1883
284,527	Wilson, J. C	Telegraphs, fire	Sept. 4, 1883
290,302	Wilson, J. C	do	Dec. 18, 1883
288,536	Wilson, J. C. and Davis, M. G	do	Nov. 13, 1883
292,607	Wilson, M. H	Telegraphs, automatic	Jan. 29, 1884

No.	NAME.	CLASS.	DATE.
294,557	Wilson, W. V	Underground lines	Mar. 4, 1884
300,933	Winch, G. L	Batteries, secondary	June 24, 1884
286,667	Wirsching, A	Telegraphs, printing	Oct. 16, 1883
285,334	Wiswall, A	Alarms, burglar	Sept. 18, 1883
286,100	Wiswall, A	Circuit-closers	Oct. 2, 1883
286,566	Wiswall, A	Alarms, burglar	Oct. 9, 1883
286,888	Wiswall, A	do	Oct. 16, 1883
293,993	Withers, J. E	Car-brakes	Feb. 19, 1884
296,096	Woehrle, A. C	Magnetic-locks	Apr. 15, 1884
286,247	Wolcott, T	Magneto-electric	Oct. 9, 1883
299,449	Woodward, J. S	Underground lines	May 27, 1884
286,985	Woolley, L. G	Magneto-electric	Oct. 16, 1883
293,612	Woolley, L. G	Lightning-rods	Feb. 12, 1884
297,547	Wright, A. P	Conductors	Apr. 22, 1884
288,908	Wright, C. D. and Fisher, C. A	Telephonic telegraphs, systems	Nov. 20, 1883
288,909	Wright, C. D. and Fisher, C. A	do	Nov. 20, 1883
300,334	Wüest, C	Magnetic-locks	June 10, 1884
295,710	Wylie, R	Underground lines	Mar. 25, 1884
284,110	Zipernowsky, K. and Déri, M	Magneto-electric	Aug. 28, 1883

REISSUES.

10,401	Farrell, J	Conductors, reissue of 262,027	Nov. 6, 1883
10,402	Farrell, J	Conductors, reissue of 262,027	Nov. 6, 1883
10,434	Gassett, O	Railway-signals, reissue of 266,957	Jan. 8, 1884
10,435	Gassett, O	Railway-signals, reissue of 266,957	Jan. 8, 1884
10,403	Hyde, J. B	Conductors, reissue of 281,999	Nov. 6, 1883
10,404	Hyde, J. B	Conductors, reissue of 281,999	Nov. 6, 1883
10,349	Waring, R. S. and Hyde, J. B	Conductors, reissue of 267,044	July 3, 1883
10,350	Waring, R. S. and Hyde, J. B	Conductors, reissue of 267,045	July 3, 1883
10,351	Waring, R. S	Conductors, reissue of 267,046	July 3, 1883
10,458	Waring, R. S	Underground lines, reissue of 268,159	Mar. 11, 1884
10,459	Waring, R. S	Underground lines, reissue of 268,159	Mar. 11, 1884



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